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76-77 Catalog

**Lowson  
State  
University**



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On July 1, 1976, this institution became known as Towson State University.

This recognition was accomplished by the passage of Senate Bill 1037 on April 11, 1976, and signed by the Governor on May 25, 1976. This designation has been endorsed and approved by the Board of Visitors and the Board of Trustees and confirmed by the Maryland Council for Higher Education and the Attorney General of the State of Maryland.



JAMES L. FISHER, *President*

# The College

## PHILOSOPHY

The Towson program rests fundamentally on the idea that a liberal education is indispensable for the preservation of a free society. Secondly, it rests on the belief that the means of acquiring special competence should be available at the undergraduate level in a tax-assisted multi-purpose college.

These two principles go hand in hand. If it is vital that all students take on the mental habits and values necessary to thoughtful citizenship, it is also important that every student be able to acquire a sense of professional direction. The curriculum is designed, then, so that all students will pursue those studies — the traditional arts and sciences — that promote critical thought about our environment; and so that each student may discover and cultivate a particular intellectual or occupational bent.

## GOALS

1. By far the highest priority of the college shall be to provide a sound liberal arts and sciences education for all students regardless of their majors or occupational ambitions.
2. The campus environment shall provide ideal conditions for learning between student and teacher, student and student, teacher and teacher, and between these and the staff, alumni and citizens concerned with intellectual and professional pursuits.
3. The college shall support programs leading to the development of skills and knowledge useful in future employment.
4. Excellence in student, faculty and administrative performance, shall be encouraged by relevant constructive evaluation and recognition.
5. The college shall provide equal educational opportunity for the public it serves.
6. The college shall maintain its autonomy from unreasonable influence by outside governing bodies and special interest groups.

## HISTORY

Towson State College, the oldest and largest of Maryland's public colleges, traces its history back to 1865. At that time the General Assembly of Maryland established a statewide public school system and authorized the first state teacher training institution, The Maryland State Normal School, later known as the State Teachers College at Towson, and since 1963, Towson State College.

Formally opened in Baltimore on January 15, 1866, the school was then the only institution devoted exclusively to the preparation of teachers for the public schools of Maryland.

The School occupied three different locations in the city of Baltimore before moving to its present suburban location in 1915.

In 1946 the arts and sciences program was introduced at Towson. Beginning as a two-year transfer program, it was extended to a four-year, degree-granting program in 1960.

A graduate program for elementary school teachers leading to the Master of Education degree was inaugurated in 1958.

In 1963 the College was authorized, by action of the

Legislature, to expand its offering in the arts and sciences while maintaining a strong program in teacher education and to change its name to Towson State College.

In 1965 the College began expansion of its graduate program to include offerings for guidance counselors and secondary school teachers.

In 1966 the College completed 100 years of service to the state, having graduated more than 12,000 students during its first century. In the past decade, the number of degree recipients has doubled. Towson State has now graduated 27,000 students, 2,159 of them having received advanced degrees.

## ACCREDITATION

Towson State College is accredited by the Middle States Association of Colleges and Secondary Schools, the Maryland State Board of Education and the National Council for the Accreditation of Teacher Education. The College is a member of the American Council on Education and is approved by the American Association of University Women.

## PRIVACY RIGHTS OF PARENTS AND STUDENTS

Towson State College is in compliance with Section 513 (Protection of the rights and privacy of parents and students) and Section 514 (Protection of pupil rights) of Title V — Education Administration of the Education Amendments of 1974.

## NON-DISCRIMINATION IN EDUCATION AND EMPLOYMENT

Towson State College is in compliance with Titles VI and VII of the Civil Rights Act of 1964, the Equal Pay Act of 1963, Title IX of the Education Amendments of 1972, Titles VII and VIII of the Public Health Service Act, and Executive Order 11246/11375. In accordance with these laws, the college does not discriminate against any individual for reasons of race, color, religion, national origin, or sex in the admission of students, educational programs and activities, hiring of faculty and staff, or any terms and conditions of employment. The College is also in compliance with Federal regulations regarding prohibition of discrimination on the basis of age, conditions of handicap, and veteran status. Information on these laws and copies of the Affirmative Action Plan of Towson State College are available from the Affirmative Action Officer.

## BOARD OF TRUSTEES

The College is governed by a nine-member Board of Trustees — eight members appointed by the Governor for nine-year terms — and the state superintendent of schools, a permanent member, ex officio. This same board also controls the six other state colleges.

## THE CAMPUS AND FACILITIES

The College is situated on a campus of over 324 acres located a mile and one-half beyond the northern border of the city of Baltimore on beautifully rolling wooded grounds.

Within an eight-mile radius of the campus are all the cultural advantages of the city of Baltimore — the Peabody Conservatory of Music and Library, the Enoch Pratt Free

Library, the Walters Art Gallery, the Baltimore Museum of Art, and the many theaters and other cultural centers necessary for a well rounded college experience.

Campus buildings and facilities give excellent support to the various College programs. The following are of particular interest:

1. Stephens Hall, the original academic building erected in 1915, houses the main public performance auditorium, classrooms, and the departments of mathematics and psychology. This Jacobean building with its clock tower has become a landmark in the Baltimore area.
2. The modern five-story Albert S. Cook Library has well-developed holdings in the arts and sciences and teacher education. In addition to the book collection there are substantial collections of microfilm and microfiche, phonograph records, pictures, cassette tapes and curriculum materials.
3. Van Bokkelen Hall contains classroom and faculty offices for the departments of speech and mass communication arts.
4. Linthicum Hall, completed in 1967, is the largest classroom building on campus. It houses the departments of English, modern languages, history, geography, political science, economics, sociology, and business administration.
5. Smith Science Hall was first built in 1965. A new 150,000 sq. ft. wing with five stories was added in 1975. Included in the building are classrooms, laboratories, research offices, lecture halls, zoology labs, animal behavior labs, an aquarium, a professional library, a live animal lab and an anatomy and physiology lab.
6. Lida Lee Tall Learning Resources Center, a laboratory school of grades K-6, greatly facilitates field studies of schools and children. The center's program also includes a nursery for four-year olds and a day-care center.
7. Burdick Hall, the health and physical education building completed in 1968, houses three gymnasiums, an olympic size swimming pool, classrooms, and various training and dressing rooms.
8. The Media Center is the remodeled former Albert S. Cook Library. It contains the audiovisual communications department and the College Media Services which includes equipment and film rentals, television studios, and graphics and photography services. It is one of the best equipped audiovisual centers in the state.
9. The College Center, a three-story building opened in the fall of 1971, provides cultural and recreational activities for the entire campus. Located in the Center are the post office, book store, box office, cafeterias, dining areas for private and banquet size groups, bowling alleys, billiards, and game rooms.

For complete information concerning the College Center, please refer to the index.

10. The Administration Building, a three-story structure at the corner of Osler Drive and Towsontown Boulevard, opened in 1972. It contains all of the principal administration offices and some faculty offices for nursing and health sciences.

11. The Health Center contains on the lower level a foyer and waiting room, offices for the physicians, examination rooms, and physio-therapy equipment. There are nine beds available for in-patient care.
12. The General Services Building, opened in the spring of 1970, contains offices and shops for the physical plant department, the Campus Police headquarters, and Central Stores and Receiving.
13. Glen Esk, formerly the president's home, is now reserved by the Counseling Center.
14. The Residence Halls: A total of 1,200 students are presently living in Newell Hall, Prettyman Hall, Richmond Hall, Scarborough Hall, Ward Hall, West Hall, and the new Residence Tower.
15. The \$7.1-million Fine Arts Building opened in May, 1973, and houses the art, music and theatre arts departments as well as public performance areas and art galleries, studios, laboratories and offices. The concert hall, main stage theatre, and studio theatre are located here, as well as the Center for Asian Arts.

## FUTURE DEVELOPMENTS

Located in one of the fastest growing areas of the county, the Towson State College enrollment is increasing rapidly. The College's 1975 enrollment was 8,141 students and 6,214 evening students including 2,727 graduate students. In addition, over 6,700 students enrolled for two five-week summer sessions.

An optimal enrollment ceiling is under study which may suggest the college level off at 9,000 day time students.

Ground has been broken for Classroom Building II which will house the psychology and education departments and a \$7-million physical education building is being constructed and will open in 1976.





# Admission

Admission to Towson State College is granted to all applicants whose academic and personal qualifications give promise of success in the College. Because of limited facilities, the College reserves the right to close admissions when no further space remains. It is therefore advisable for high school students to make their college choice at the close of their junior year or early in their senior year.

Students seeking freshman admission should file applications during the first semester of the senior year. Priority for admission will be given to those whose applications and admissions material are received by March 1. Applications from transfer students should be received no later than May 1. Admission for February is granted on a space available basis. No application for February admission will be accepted after November 15. All admission material for February entrance must be received by December 1.

Undergraduate applicants who are not citizens of the U.S. may be admitted only once each year, for Fall admission. The deadline for requesting application materials is February 15th. The deadline for submitting a final application is April 15th.

Applicants with excellent records are granted admission on the basis of high school work completed, with the condition that the remaining high school work will be satisfactory. Candidates for admission to Towson State College are strongly urged to complete a college preparatory program in high school.

The following are the admission requirements established by the Board of Trustees of the State Colleges.

1. Admission to the State Colleges shall be determined without regard to race, color, religion, or sex.

2. Admission: High school graduates

A. Admission shall be granted to graduates of high schools on the basis of grades, rank, admission test scores, and such other evidence, including the recommendations of appropriate high school officials, as may be deemed indicative of the ability of the applicant to complete a course of study in college leading to a degree.

B. No admission offer shall be made prior to receipt of a candidate's scores on the admission tests administered in the candidate's senior year or subsequent thereto, except as herein provided. Early admission may be offered to not more than a maximum of twenty percent of the anticipated enrollment in the freshman class. Such an offer shall be made only to an applicant of demonstrated superior scholarship and promise, as evidenced by his record through the junior year and by his performance on the admission tests administered in his junior year or subsequent thereto.

C. The tests to be used for admission purposes shall be the College Board Scholastic Aptitude Tests, effective with applicants for admission in September, 1967.

D. Admission prior to graduation from high school shall be conditional upon completion of the high school curriculum in a manner that would qualify the student to admission under paragraph A.

E. In the evaluation of academic credentials no preference shall be granted as between residents of the State, upon the basis of their places of residence.

F. Completion of a college preparatory curriculum shall not be a condition of admission. High school graduates who have not followed a college preparatory curriculum, but whose grades, rank, and aptitude test scores indicate the potential to complete a college degree program, shall not be denied admission on that ground.

3. Admission: non-graduates of high school

Admission shall be granted to applicants who are not high school graduates on the basis of high school equivalence examinations, the admission test scores, and such other evidence, including the recommendations of appropriate persons, as may be deemed indicative of the ability of the applicant to complete a course of study in college leading to a degree.

4. Out-of-State and Foreign Students

A maximum of twenty percent of the total student body at each college may be composed of out-of-state students and foreign students not resident in Maryland. However, the college shall be expected to meet its obligations to qualified resident students before approaching the maximum enrollment of out-of-state and non-resident foreign students.

5. Foreign Students

A. A foreign student not resident in the United States shall receive the same schedule of fees as an out-of-state resident.

B. All foreign student applicants will be required to take the Test of English as a Foreign Language which is administered by the College Entrance Examination Board.

6. Student Residency Classifications for Tuition Purposes

A. *General.* To qualify as a resident for tuition purposes for any given semester, an individual must have maintained his/her domicile in Maryland for at least six months immediately prior to the last date available for initial registration for that semester in the applicable State College.

B. *Domicile.*

(1) *Establishment of domicile.* The term "domicile" shall be synonymous with the term "residence." Domicile is a person's permanent place of abode; namely, there must be an intention to live permanently or indefinitely in Maryland. Domicile must be established in Maryland for a purpose independent of attendance at a State College.

(2) *Maintenance/change of domicile.* For the purpose of residency for tuition purposes, only one domicile may be maintained.

(a) A domicile in Maryland is lost when a new one is established elsewhere, or if an individual leaves the State with no intent to return to Maryland. After residing elsewhere for six months, regardless of intent to return, a student's status as a resident for tuition purposes is in question.

(b) The domicile of a student shall be determined at the time of initial registration but may thereafter be changed for any subsequent semester if circumstances change in relation to these regulations.

- (c) The burden of proof of domicile shall necessarily rest with the student.
  - (d) A change in tuition status must be requested by a student prior to registration period in order to be effective for that semester.
- (3) *Domicile of a minor.* The domicile of an unmarried, unemancipated minor is normally that of the parent having custody of the minor. The following extenuating circumstances shall apply:
- (a) If both parents are deceased, the domicile of the minor shall normally be that of the legal guardian if one has been appointed. If no legal guardian has been appointed, the minor's domicile shall normally be that of the person *in loco parentis* to the minor. A person stands *in loco parentis* to a student when he has put himself in the situation of a lawful parent by assuming the obligations incident to the parental relation without going through the formalities necessary to legal adoption. The determination of such status will be made on a case by case basis by the responsible college official who will consider who has custody or control of the student, who is financially supporting the student, and who has assumed general responsibility for his/her welfare.
  - (b) If the parent, legal guardian, or person *in loco parentis* (whichever is applicable) having custody of the minor changes his/her domicile to another state, the student shall be charged out-of-state tuition for any semester commencing six months after the person having custody changes his/her domicile.
  - (c) A non-resident student who reaches the age of eighteen while attending a State College does not qualify for classification as a resident for tuition purposes simply by virtue of having become an emancipated student.
  - (d) An emancipated student is considered an adult for the purpose of determining his/her residence classification.
  - (e) The residence of a married minor shall be determined in the same manner as an adult.
- (4) *Domicile of a woman.*
- (a) A married woman must establish her domicile independently of her husband, even though they live jointly.
  - (b) A divorced woman must establish her own domicile.
  - (c) A separated woman must establish her own domicile.
  - (d) A minor whose marriage is annulled takes on the domicile of her parent, legal guardian, or person *in loco parentis*.
  - (e) A woman over eighteen whose marriage is annulled is responsible for establishing her own domicile.
- (5) *Emancipation.*
- (a) Minors claiming emancipation from their parent, legal guardian, or person *in loco parentis* (if applicable) must present one or more of the following documents to substantiate any claim of emancipation:
    - (i) Proof of place and length of domicile in the State;
    - (ii) Marriage Certificate;
    - (iii) Court order declaring that a student under the age of eighteen is emancipated from his/her parent or legal guardian. (A notarized letter and a copy of the previous year's tax return from the parent(s) or legal guardian may suffice if the costs of obtaining a court order place an undue financial burden on the student.)
  - (b) Minors claiming emancipation must meet the domicile requirements of an adult.
- (6) *Adults.* A person eighteen years of age or older is a resident if he/she has maintained continuous domicile in Maryland for six months immediately prior to the last date available for initial registration.
- (7) *Military Personnel.*
- (a) Members of the Armed Forces not from Maryland at the time of entrance into the Armed Forces and stationed in Maryland may be considered residents of this State if they establish domicile in Maryland.
  - (b) The dependents of men and women in any branch of the Armed Forces who are stationed in Maryland and who have established domicile in the State six months prior to their first registration are granted residence status for tuition purposes.
  - (c) A member of the Armed Forces who was a resident of Maryland at the time he/she entered the Armed Forces retains his/her residency status as long as he/she remains in the Armed Forces provided he/she does not establish domicile elsewhere.
  - (d) An adult sent by a branch of the Armed Forces to a State College for the purpose of completing degree requirements may be granted residence status for tuition purposes.
- (8) *Foreign Nationals.*
- (a) Any foreign national holding a permanent United States immigrant visa must meet the domicile requirements of an adult or a minor, as applicable.
  - (b) A foreign national possessing a student visa cannot be classified as a resident of Maryland.
  - (c) The minor sons and daughters of citizens of other countries who are holders of a G-4 visa and whose parent(s) or legal guardian establish domicile in Maryland for a period of six months prior to registration at a State College may be granted residence status for tuition purposes.
  - (d) Adults on refugee visas of other countries may be granted Maryland residence status provided they establish domicile in the State for a period of six months prior to their first registration at a State College. Minors acquire the residence of their parent(s) or legal guardian.
- (9) *Responsibility of Students.*
- (a) Any student or prospective student in doubt concerning his/her residence status is responsible for receiving a ruling from the designated official at the applicable State College.

- (b) A student who alters his/her status from resident to non-resident, or vice-versa, has the responsibility of informing the designated official at the applicable State College.
- (c) The residency status of a student may be altered by the applicable State College on the basis of its own findings.
- (d) A change in status must be requested by a student prior to the registration period in order to be effective for that semester.

#### 7. Admission: Advanced undergraduate standing

A. An applicant for advanced undergraduate standing must present official transcripts from all institutions which he has attended. The transcript from the last school he attended must show him to be in good standing. Transfer credit shall be allowed for all academic course credits earned at public colleges accredited by the Maryland State Department of Education or at any regionally accredited college or university. Career, terminal or other courses not offered at the College will be accepted for transfer credit if approved by the appropriate department of the College, or in the absence of an appropriate department, by the Admissions Committee of the College. In all cases, the applicant must spend the final year "in residence" at the College as a full-time student. Exemption from the preceding requirement may be granted on an individual basis by the Standards Committee.

B. It is the policy of the Board of Trustees that every effort shall be made to facilitate the transfer of graduates from the public community-junior colleges of the State of Maryland to the State Colleges. Such graduates who have pursued a transfer program and who have achieved an Associate in Arts Degree within four semesters in the case of full-time students, or the equivalent in the case of part-time students shall have priority over other transfer applicants for upper class standing. For priority purposes, Towson will consider a student with 56 credits as having completed his work at the community college.

\*C. Every student must meet the general education requirements, departmental requirements and earn 120 credits in order to graduate.

A maximum of 90 credits may be transferred to Towson State College from another regionally accredited institution; not more than 64 of these transfer credits may be from a two-year institution. The sequence in which the credits are obtained at 2-year and/or 4-year institutions does not affect in any way the determination of the previously stated total number of credits accepted for transfer. Transfer students are reminded of the rule that a minimum of 32 semester hours of upper division work is required for graduation.

Towson State College students must obtain prior approval of the Academic Standards Committee to take courses at another institution for the purpose of transferring them for credit. In general the Committee will not approve taking courses for credit at

a 2-year institution once junior status (64 credits) has been attained.

D. Transfer credit will not be given for correspondence courses or for U.S.A.F.I. or military courses. Transfer credits will not be given for courses taken at a college or university which is not accredited by its regional association or the Maryland State Department of Education.

#### 8. Admission: Veterans

Effective November 1, 1969, any veteran who is eligible for G.I. benefits and who has a high school diploma or equivalency will be admitted to Towson State College despite his previous academic record(s). Veterans who have attended other colleges since their discharge are NOT included in this policy, and would seek admission through the normal transfer process. Priority for the acceptance of veterans will be given to the residents of the state of Maryland. Out-of-state applicants will be admitted on a space available basis. In addition to high school or college transcripts, each veteran must also provide the Admissions Office with a copy of his DD Form 214 as verification of military service. The S.A.T. results are NOT required of veterans seeking full-time admission under this policy. Applications for V.A. benefits may be obtained from the College's Office of Veterans' Affairs.

### ADMISSIONS PROCEDURE

1. An applicant may secure an application form from the guidance office of the secondary school or from the Admissions Office of the College.
2. The applicant should complete the personal part of the form and forward it with the application fee of twenty dollars to the Director of Admissions. Each applicant is responsible for the Admission Office's receipt of his/her official high school transcript, which must be received directly from the student's high school. The transfer applicant should arrange to have forwarded official transcripts of all college work attempted or completed, whether or not credit was earned from all other institutions attended. If housing on campus is desired, please mark the appropriate box on the application for admission.
3. The standardized test required for admission is the Scholastic Aptitude Test of the College Entrance Examination Board. The applicant should arrange to have forwarded to the Director of Admissions the results of this test. Students should take the test in their senior year of high school (either the November, December, or January administration). Junior year SAT scores are also acceptable.

### DEFERRED ADMISSIONS

Effective September 1974, Towson will offer admission to high school students, who qualify under present standards, with the option of accepting the offer beginning any semester within the next three years. Students will be obligated to notify the College and submit an acceptance fee three months prior to the semester they wish to attend. Students will be responsible for complying with the academic regulations published in the College Bulletin in effect for the semester in which they enroll.

\* For specific details regarding this policy contact Secretary of all Academic Standards Committee or Director of Admissions, Towson State College.

Students who enroll at another institution will be required to reapply as transfer students, and may not be included in this program.

### **MATURE ADULTS POLICY**

In September 1974, Towson State adopted an admissions policy which guarantees admission to a mature student regardless of the student's previous academic records or standing. Students are required to be a minimum of 21 years of age, have a high school diploma or equivalency, and have a three-year break in their formal education in order to be admitted under this policy. Applicants are required to submit a formal application and official transcripts of any and all academic work attempted, but are excused from entrance test requirements. Applicants are also encouraged to have an interview with the Director of Admissions or a member of the Admissions staff prior to their anticipated enrollment.

### **EARLY ADMISSION**

A limited number of students are admitted and matriculate immediately following the completion of their junior year in high school. Students interested in "early admission" should apply through the normal application process. Their applications, however, must be accompanied by a letter of recommendation from either the high school counselor or principal. An official high school transcript should be submitted along with the results of the S.A.T. An interview with the Director of Admissions is also advisable.

### **ADVANCED PLACEMENT AND CREDIT FOR ENTERING STUDENTS**

The College does not wish students to repeat work already taken. Entering freshmen who have had the opportunity for advanced work may receive advanced placement (and in some cases advanced credit) for this work.

During the summer prior to registration or during the opening week, freshmen take placement tests in various fields, and registration is based on the results of these tests.

Students who would like advanced credit as well as advanced placement are required to take the Advanced Placement Tests of the College Entrance Examination Board in May of the senior year of secondary school. In addition, students wishing to continue studying a foreign language should arrange to take the Language Listening Examination along with the Advanced Placement Tests. The results of these tests are received by the College about July 15. They are reviewed, along with grades in these subjects, by the departments concerned, and when appropriate, placement and/or credit is granted. Prior to final registration students are notified about advanced placement and credit. Additional information may be obtained by contacting the Director of Admissions at Towson State College.

A bulletin of information about the Advanced Placement Tests may be secured from the College Entrance Examination Board, P. O. Box 592, Princeton, N.J.

### **CREDIT FOR EXPERIENCE AND PREVIOUS LEARNING**

Departments are permitted to grant credit to students for experience and previous learning when the student's achievement in a particular area is equal or is superior to that of a student having earned a C in the course taken. This is the level at which credit is generally granted to transfer students. While departmental standards for the granting of credit for experience and previous training may exceed this minimum, credit may not be given when achievement is below C level work. Departments may also offer advanced placement with no credit given if they wish.

When departments use standardized evaluative instruments such as CLEP, the College Board Advanced Placement Tests, or others, the same principle shall be adhered to. If the faculty member's evaluation reveals that the student's achievement is equal or superior to that of a student having earned a C in the course taken in a traditional way, the department will report the grade of PE to the Registrar on the form for granting course approval to students.

### **EVALUATION OF TRANSFER CREDITS**

Applicants who have been admitted to the College as a transfer student will receive an evaluation of their previous course work from the Admissions Office with their letter of acceptance. This evaluation will be preliminary in nature if the student is still taking course work. If the student accepts Towson's offer of admission, a final evaluation of transfer credit will be made upon receipt of the transcript showing the student's grades for the most recent semester.

Upon receipt of their final evaluation, students should carefully review its contents. If the student has any questions or feels there is an error, the student must so advise the Admissions Office within 30 days. In no case will changes, additions, or corrections be made to the evaluation after the students have completed their first semester at Towson State College.

### **PLEDGE TO TEACH IN MARYLAND**

The tuition waiver program to encourage students to prepare for teaching positions in Maryland was abolished after 1 October 1972.

All students enrolled under the tuition waiver agreements in the fall semester 1972 may continue their program to graduation providing they are continuously in good standing from the fall of 1972 until graduation.

Students who are required to interrupt their attendance after the fall semester 1972 would be able to resume the tuition waiver agreement providing the student had officially withdrawn from the College for a period not exceeding one year.

### **EVENING AND SUMMER PROGRAMS**

Information pertaining to these programs may be obtained by referring to the Evening College Bulletin or the Summer Session Bulletin.

# Expenses

## TUITION

Those who enroll in the arts and sciences program, and those in teacher education program pay \$100 per semester tuition.

For out-of-state students the tuition is \$350.00 per semester for enrollment in either the arts and sciences or teacher education program.

Special students (normally those who register for less than 12 semester hours) in the regular session, and all summer and evening session students pay \$27.00 per credit hour each semester for undergraduate and \$40.00 per credit hour for graduate work.

Tuition charges and fees are subject to change at any time by action of the Board of Trustees.

## HOUSING AND BOARDING COSTS

Dependent upon room plan selected, students living on campus may pay approximately \$678.00 per semester for room and board. Students living off campus may purchase the meal plan for \$370.00 per semester.

As residence space becomes available, those students who are eligible to reside in residence will be requested to room in one of the halls. For those students who enter the residence hall after the beginning of a semester, the charge will be prorated for the remainder of the semester plus one week. (For exact rates contact the residence offices.)

Rates for living expenses are subject to change by the Board of Trustees.

## OTHER FEES AND EXPENSES

A comprehensive fee of \$249.00 is charged each full-time student each semester. The yearly fee is \$498.00. This includes fees for student activities, athletics, college center, registration, and curriculum costs.

Commuter students will find a limited number of lockers available in Stephens Hall, the Fine Arts Building and the College Center. Lockers are rented for \$2.00 per year and may be obtained from the Recreation office in the College Center. The College assumes no responsibility for personal property placed in lockers.

Students taking Physical Education courses are assigned lockers by the Department of Physical Education in Burdick Hall.

A graduation fee of \$15.00 is required for those receiving a bachelor's degree and the fee for those receiving a master's degree, plan A (with thesis) is \$30.00, plan B (without thesis) is \$25.00.

Dormitory students are assigned individual mail boxes. Each student shares a mail box with one or more students. There is a fee of \$1.00 per student included in the comprehensive fee.

Students are expected to buy the textbooks for their courses, which may be purchased in the College Bookstore. Students are required to buy gymnasium suits for the courses in physical education. These are also available in the College Bookstore.

A late registration fee of \$5.00 is charged to any student who does not pre-register as prescribed.

A late change of course fee of \$5.00 is charged to students for making student-initiated changes in their academic schedule.

Evening and summer students are charged \$27.00 per credit hour (undergraduate) or \$40.00 per credit hour (graduate) and a \$20.50 comprehensive fee for each semester.

Students enrolled in a practice teaching experience (student teaching) are charged \$106 per practice experience.

The Board of Trustees reserves the right to make any changes or adjustments in tuition, fees, or charges when such changes are deemed necessary.

## EXPENSES FOR MARYLAND RESIDENTS

Arts and Sciences students and Teacher Education students expenses:

	Semester I	Semester II	Total for Year
Comprehensive Fee .....	\$ 249.00	\$ 249.00	\$ 498.00
Tuition (In State) .....	\$ 100.00	\$ 100.00	\$ 200.00
Total Day Students .....	\$ 349.00*	\$ 349.00*	\$ 698.00*
Room and Board .....	\$ 678.00**	\$ 678.00**	\$1356.00*
Total Boarding Students ..	\$1027.00	\$1027.00	\$2054.00

\*Out of state students should add \$250 more to each semester for higher tuition costs.

\*\*Includes \$1.00 key deposit which will be refunded at checkout if key is returned. These figures are based average expected room and board rates.

PLEASE NOTE: Because of rapidly increasing costs and virtually a stand-still budget appropriation, it may be necessary to increase the tuition or fee \$50 to \$100. It is suggested that the amount on checks not be completed until registration.

## PAYMENT OF FEES

All checks or money orders should be made payable to "Towson State College" for the exact amount of the charges. *All fees are due and payable at the time of registration.* Students may not be admitted to classes until such payment has been made. A penalty fee of \$5.00 for amounts up to \$50.00 or \$10.00 for amounts over \$50.00 is charged when a check given in payment of fees, fines, or services is returned by the bank for any reason whatsoever.

Financial policy set by the Board of Trustees and supported by the Legislative Auditors of the State of Maryland states that all previous balances must be paid prior to registration for the following academic semester.

## ADVANCE PAYMENTS

Each applicant must pay a non-refundable application fee of \$20.00 and no application will be processed without this fee or a valid waiver.

Once admitted, a student must submit a non-refundable \$25.00 acceptance fee in order to reserve a place in the class. This fee will be credited to the student's account at registration.

A deposit of \$50.00 for room reservation is required of applicants for housing upon notification from the Housing Office that space is available. This fee is applied to the final amount of room and board due at the time of registration.

The above room deposit is refundable if the student cancels his application and notifies the Admissions Office, in writing, prior to June 30 for those entering in September, or if the College denies admission to the applicant.

The fee is forfeited if notice of cancellation is received after June 30.

All advance payments are to be sent to the Admissions Office.

## LIABILITY FOR UNPAID TUITION

A Maryland student enrolled in the teacher education program who paid no tuition because of signing a pledge to teach in the State, is liable for unpaid tuition if he/she voluntarily withdraws from the teacher education program before graduation.

If he/she leaves college before graduation or transfers to the arts and sciences program, he/she will be billed at the arts and sciences tuition rate for the education he/she obtained at the College.

He/she may be released from the above tuition payment if he/she transfers to a Maryland institution which has a teacher education program approved by the State Department of Education which will accept the waivers allowed at Towson State College. (This program is not available for new applicants.)

## REFUNDS ON WITHDRAWAL

A student withdrawing from the College must complete an official withdrawal card at the Dean of Students Office and file it in the Registrar's Office before he/she is entitled to any refund. The date of withdrawal will normally be the date the card is filed.

### Refund Policies

1. Towson State College shall adhere to the following policies with respect to refunds to students of tuition, room and board fees, and other charges.
2. The timing for effecting tuition refunds shall be as follows:
  - a. Prior to registration and before classes start—all tuition and fees except the application/registration fee shall be refunded the student.
  - b. Prior to the fifteenth calendar day from the official beginning of classes at the College—100 percent of tuition, less a \$10 administrative cost fee and \$25 acceptance fee, shall be refunded the student.

- c. Beginning with the fifteenth day after the official beginning of classes at the college to mid-semester, as shown on the college calendar—50 percent of tuition, less a \$10 administrative cost fee and \$25 acceptance fee, shall be refunded the student.
- d. After mid-semester—no tuition or fees shall be refunded the student.

3. The same time span shall be utilized for fee refunds, except that:
  - a. Registration/application fee—non-refundable.
  - b. Room Deposit fee—non-refundable after July 1 prior to the fall semester.
  - c. Room Rent fee—non-refundable after the first day of classes.
  - d. Student fees (athletic, curriculum, etc.)—non-refundable.
  - e. Auto Registration fee—non-refundable.
  - f. Applied fees (private instruction)—non-refundable.
  - g. Board fee shall be pro-rated on a weekly basis, plus one week up to mid-semester—thereafter, non-refundable.
  - h. Key Deposit fee—100 percent refundable.
4. The timing for effecting tuition and fee refunds for summer sessions shall be the same as for regular sessions except that for a period not to exceed fifteen calendar days after the official beginning of classes at the College, only 50 percent of the tuition shall be refunded the student. Beginning with the fifteenth day after the official beginning of classes at the College, no tuition shall be refunded the student.
5. Individuals who register for a full schedule and who drop courses after the official beginning of classes at the College shall not be entitled to a refund based on a credit-hour charge.
6. Any student dismissed by a college for disciplinary reasons shall not be entitled to any tuition or fee refund.



# Student Services Program

The Student Services program is designed to promote a college milieu in which students may find programs for fulfillment and enrichment in meeting the goals of the college. It provides services to facilitate the students' growth in both the academic and non-academic spheres of the college. The program provides the opportunity for students to participate more thoughtfully and with greater awareness in their college experiences while at the same time it provides services for those students who meet difficulties they themselves cannot resolve.

## ORIENTATION

Orientation at our institution is a vital process. In an age of accountability, Towson State College delineates what college will offer, and the expectation of students in meeting those goals.

In Towson State College's summer orientation program, TRIAD I, our major responsibility is to acquaint new students with Towson and with the variety of freedoms, values, and attitudes each student faces during a college career. The key to TRIAD I is individualism.

Student and faculty advisors lead new students through a series of experiences that will enable them to define their academic and social needs and aid them in identifying the means available to satisfy those specific needs and facilitate their educational progress.

Running concurrently with the TRIAD I program is TRIAD II, a parent orientation session which offers to parents the opportunity to obtain responses to their immediate concerns in regard to their sons' or daughters' college experience.

Rounding out the orientation programs is TRIAD III, two mini-orientations in the fall (September) and the spring (January). In TRIAD III, we offer an abbreviated version of the major program and attempt to give the mid-year and late summer entrants the best possible service.

After their initial experience through TRIAD, students are encouraged to seek on-going academic advising through the office of Academic Advising, which is located in Room 216 in the College Center.

## ACADEMIC ADVISING

The Academic Advising program provides the kinds of service and information for ongoing students that Orientation provides for new students. The purpose of the Academic Advising program is to help students to make choices. Usually these are choices which help the student to plan a method by which he/she can best make use of the educational opportunities of the College. The Academic Advising service located in the College Center 216 provides on going services to all students: seniors reviewing their records for graduation; students who need help in selecting courses; students who have been academically dismissed and need assistance regarding their return to good standing. Without knowledge of academic regulations the student cannot extract the most from the college experience. Any student with unresolved questions concerning his/her college career should visit this office.

## Students Who Have Selected A Major

Immediately upon deciding on a major, the student should go to the department of that major to choose, or be as-

signed, a faculty member who will serve as his/her advisor for the remaining years the student is in college.

Arts and Sciences majors are assigned advisors through the coordinators of that program, the Associate Academic Deans.

## Students Who Have Not Selected A Major

Students who have not chosen a major also need to discuss professional, and educational problems. Therefore, any student without a major who needs academic advice will be helped through the Office of the Associate Dean of Students, College Center 216.

## FOREIGN STUDENT AFFAIRS

Towson State College is a community of peoples of various ethnic, religious, and racial backgrounds. Through cultural interaction, the Towson State College student may develop an understanding of the peoples in his/her surroundings. Enhancing the cultural milieu of this institution is a growing body of international students and faculty. Since many personal and intellectual benefits can be derived through reciprocal investigations of culture, the college has created the office of Foreign Student Affairs. This office coordinates our admissions program with the policies of the Department of Immigration and Naturalization. Through this office assistance is provided for the social and academic adjustment of the international student population at Towson State College. A major duty of this office is to provide information about College policies and Federal regulations regarding foreign students.

A few of the pertinent regulations pertaining to the international student on this campus are the following:

1. A "Foreign Student" at Towson State College is considered to be any student possessing an F-1 (Student Visa); F-2 (Spouse, or Child of Student Visa); J-1 (Exchange Visitor Visa); or J-2 (Spouse or Child of Exchange Visitor Visa) visas. Exceptions or additions to this rule will be regulated by the Foreign Student Advisor.
2. Any foreign student entering this college must have and be able to prove substantial proficiency in the English language, usually through the Test of English as a Foreign Language (TOEFL).
3. Any foreign student entering the college should be able to support himself/herself entirely for the first year of residency at this college, be it freshman, sophomore, junior, or senior year.
4. A transfer student must have prior permission from the Department of Immigration and Naturalization to transfer to Towson State College and must fulfill all of the above requirements.
5. To qualify for an F-1 (student) Visa, all foreign undergraduate students must be enrolled in the Day School or the Summer and Evening School and must carry 12 credit hours per semester. Graduate students must carry at least nine credit hours per semester, but may carry less if, after enrolling for four graduate courses, their credit hours do not total ten.

Since foreign students are usually among the latest to be admitted, housing is sometimes a problem. The Director of Off-Campus Housing (Newell Hall, Room 01) can be of help when on-campus residence is not available.

The office of Foreign Student Affairs is located in College Center 216. The hours are 8:30 a.m. to 4:30 p.m.

### **Services for Disabled Students**

The College is firm in its commitment to offer its educational opportunities to all who can profit from them. While some of our older buildings present architectural barriers to persons with particular disabilities, every effort is made to provide alternatives for students.

Prospective students and students currently enrolled who have physical disabilities or limitations are urged to contact Mr. Lonnie McNew such matters as special registration, reader service or other arrangements to effectively remove architectural, social or procedural barriers to their progress.

### **COUNSELING CENTER**

The role of the Counseling Center is to maximize the opportunity for Towson students to make the fullest use of their educational experience. In fulfilling this role, the Center offers students an atmosphere of freedom, trust and confidentiality in which to explore alternatives to personal, social, or vocational problems. Of equal concern to the Center is its development of programs designed to create an environment which minimizes roadblocks to student growth. The Center recognizes that the college community is highly diverse, and that it must be responsive to the needs of minority students to make the educational experience most meaningful to all.

Individual counseling is offered by appointment and the sessions generally last 50 minutes. For those problems of an emergency nature, every effort is made to meet them without a previous appointment.

Staff members at the Center are available to provide training for the acquisition of effective living and helping skills. Training programs are offered to enable members of the college community to further develop their abilities to be helpful to others. Upon the successful completion of training, many students are eligible to work as helpers in various programs established on campus.

Experiences in groups are offered throughout the year to those who wish to refine their skills in human relations. Included in the various emphases of these groups are Awareness, Life Planning, Career Development, Creativity, Self Understanding, and College Concerns.

Staff members at the Center are available for consultation with faculty, students, and administrative groups. Assistance is provided in the development, implementation, assessment of programs related to enhancing the learning environment and humanizing the educational process. Every effort is made to establish programs which impact the college community in ways which maximize the chance for personal institutional growth and minimize the occurrence of failure.

The Counseling Center has established a Satellite Center in the Study Skills Support Services Center located in the College Center. In establishing a Satellite Center, the Counseling Center extended all services available in the Center itself with a special focus on academic advising programs; i.e., course selection in planning semester schedules for non-majors, aid in improving contact between students who have chosen majors and their assigned advisers, and interpretation and clarification of all academic regulations that apply to a student's academic situation.

All students are encouraged to use the services and a special invitation is extended to minority students whose

needs have not been met traditionally in a counseling setting.

### **Mental Health**

Psychiatric services are available to all students without charge at the campus Mental Health Service, located in the Health Center. Psychiatrists from the staff of Sheppard Pratt Hospital are in offices in the Health Center each class day for appointments with students who wish to see a psychiatrist for brief consultation or short-term therapy. Often problems can be resolved quickly, but psychological testing, longer-term therapy, group therapy, or other referrals can be arranged as needed.

All contacts with the Mental Health Service are entirely confidential. Students may make their own appointments by contacting the Health Center in person or by telephone at extension 243.

In addition, the Mental Health Service is available to work with various groups on campus in regard to mental health concerns in specific areas or in the college community as a whole. Students who wish to have psychiatric collaboration or participation in their activities may feel free to request this service by contacting the Supervisor of the Mental Health Service, at the Health Center.

### **STUDENT DAY CARE CENTER**

The Student Day Care Center provides quality child care for the children of Towson State students. Applications may be obtained by calling the director at 321-2652 or by writing to the Center. Children must be 2 years old by admission date and are accepted on a first-come first-served basis with full-time students receiving first priority. Tuition is charged on a sliding scale dependent upon family income. The center is in operation from 7:30 a.m. until 5:30 p.m. and follows the College calendar. The immediate goal of the center is high quality care in the absence of the child's parents. The center expects also to assure opportunities for physical, emotional, and intellectual growth.

### **STUDY SKILL SUPPORT SERVICES CENTER**

The Study Skills Support Services Center is designed to provide academic support services for students at Towson State College. It is primarily aimed at assisting minority students who have the potential to do college work but who are in need of academic support services to facilitate their academic growth and development at Towson State College.

Services are provided in the following areas by appointment:

1. Counseling — Academic Advising (both on a walk-in and appointment basis)
2. Reading Seminar — Three (3) offered on a no credit basis
3. Special courses in communication skills.
4. Individualized reading programs — includes comprehensive reading evaluation of the student
5. Individualized tutoring sessions in a variety of subject areas such as psychology, English, math, biology, music, etc.
6. Tutoring positions for juniors and seniors (Work-study and Regular)
7. Small library with reference materials that can be used within the Center.



8. Seminar in Listening Skills
9. Seminar in Study Skills Development
10. Student Discussion Groups (J. Harris)
11. Summer Transitional Program

## FINANCIAL AID

The Financial Aid Office at Towson State College believes that it is the responsibility of both the student and his/her parents to pay college expenses. Financial aid may be designed to supplement, but not replace, these primary resources. Therefore, most of TSC's aid programs are based on the financial need of the family.

The nationally standardized procedures suggested by the College Scholarship Service (CSS) through its Parents' Confidential Statement or Student's Financial Statement are utilized to demonstrate need. This program is based on need analysis procedures required and approved by Federal law. Self-supporting students use the Student Financial Statement (SFS) to demonstrate need. Please check with the Financial Aid Office to determine if you may file as a self-supporting student. All students must reapply every year for continuation of financial aid.

Except as noted within individual program descriptions, all students who are carrying at least 6 credits per semester, are in a degree seeking program of study and are in good standing are eligible to apply for student aid programs. Special non-degree seeking students will be considered if funds are available.

Since college financial assistance programs are based on financial need, students are required to report to the Financial Aid Office all scholarships, loans, grants and earnings from employment not originally reported on the application for aid as they occur. The student's need will be reevaluated. If need is decreased the student's aid will be reduced accordingly. Where possible, the student's aid for the following semester will be adjusted. Should an over award occur (aid received is in excess of need), the College will bill the student for repayment of assistance already received. The payments will be refunded to aid accounts in the following order: BEOG when applicable, NDSL and Nursing Loans, Other Race Grants, College Scholarships and Grants, Federal Grants (SEOG, Nursing Scholarship).

Student assistance is disbursed by individual checks made out to each student. All students must personally come into the Financial Operations Office to sign for their checks and pay their bill even though they may have been given credit for the payment in advance on their statement of fees. FAILURE TO CLAIM CHECKS will result in cancellation of the student's award. The student would then be billed personally for the balance due.

Students not returning financial aid materials and acceptance by the time specified on the award letter are subject to award cancellation.

Students who withdraw or stop attending classes before the end of the semester can be liable for repayment of any amount of financial aid received that exceeds the cost of tuition, fees and books.

## Application Procedures for College Financial Aid Programs

Incoming freshmen should obtain the Parents Confidential Statement (PCS) from their high school counselors or from the TSC Financial Aid Office. A TSC Form A application supplement must be sent to the TSC Financial Aid Office before processing may be completed. Upperclassmen

should apply directly to the Financial Aid Office for a PCS or SFS and Form A. Self-supporting students should submit a Student Financial Statement (SFS) in addition to the Form A which are available upon request from the Financial Aid Office. (All appropriate forms must be on file before processing begins.) There is a \$4.00 processing fee for the PCS and \$3.75 fee for the SFS, payable to the College Scholarship Service at the time the application is filed. (Fees are subject to change.)

All prospective freshmen and transfer students should file their TSC financial aid application when they submit their TSC admission application although financial aid applications will not be processed by the College until the student has been offered admission. Applications for all financial aids should reach our office by April 1 for the following school year. Applications for summer should reach our Office before March 15. (Please note that 4 to 5 weeks processing time by CSS must be allowed in meeting these deadlines.) Students who are admitted as new students after April 1 may be given consideration for funds after the deadline date. After April 1, we cannot assure immediate processing nor announcement of results prior to the beginning of the school year. If funds are still available, necessity cases will be processed during the school year.

## Direct Federal Aid Program — BEOG

The Basic Educational Opportunity Grant Program (BEOG) provides grants to eligible students. All students carrying at least 6 credits per semester are eligible to apply. Grants may range as high as \$1400 depending on the federal formula. The grant is awarded by the federal government, not the College; therefore, students must file a separate BEOG application with the federal government which may be obtained from the Financial Aid Office or high school guidance counselor. All students applying for financial aid from the College who are eligible to apply for the BEOG are required to do so by Towson State College.

## College Aid Programs

The Supplemental Educational Opportunity Grants Program (SEOG) provides grants to half- and full-time students with exceptional financial need (student's family contribution less than one half the cost of education). Recipients must show evidence of academic or creative promise and capability of maintaining good standing in his/her course of study and would not, but for a supplemental grant, be financially able to pursue a course of study at Towson State College. These grants may provide up to one half of the actual need of the student and do not have to be repaid. The other half of the actual need must be met by state, private and college scholarships, loans, work-study jobs and other aid, or the grant may not be received.

The National Direct Student Loan Program. (Formerly National Defense Student Loan) makes up to \$5000 in five years available on a loan basis to undergraduate students and \$10,000 aggregate for graduate students who have proven financial need. There is no interest charge on this loan as long as the student continues in at least half-time status, but there is interest of 3% beginning ten months after the student leaves school. The recipient may have up to ten years to repay the loan following his or her departure from school. Special education teachers and teachers teaching in economically and culturally deprived areas may receive a specified percentage cancellation of principal for each teaching year up to 100%. The money

cannot be received until the student is registered for the semester for which the loan is granted.

The College Work-Study Program (CWS) makes jobs available to students with exceptional financial need. These jobs are usually assigned as part of the "Financial Aid Package." If at all possible, students are placed in positions that are related to their academic major or special interest. Employment may be obtained in departmental offices on-campus and non-profit private or governmental agencies on a contracted arrangement off-campus.

The Other Race Grant (ORG) is a grant for degree seeking minority students attending on a full-time basis who are legal residents of Maryland and have financial need. These grants are usually awarded in combination with these awards. The maximum grant may not exceed the need of the student.

The Law Enforcement Education Program (LEEP) provides loans of up to \$2200 per academic year and grants up to \$400 per semester for college studies by police, courts, and corrections employees. Additional information and applications for LEEP can be obtained in the Financial Aid Office. Deadline for loans is April 1 for the following academic year. Deadline for grants is one month prior to registration.

The Nursing Student Loan and Scholarship Program provides financial assistance to full and half time students of exceptional need who plan to undertake courses of study leading to careers in nursing. The maximum scholarship or loan to be received is \$1500 or \$2500 respectively per academic year depending upon financial need. The student must be accepted into the nursing program (usually the second semester of the sophomore year) before being eligible to apply under the Loan and Scholarship Program. Students eligible to receive the Nursing Loan are not eligible to receive a National Direct Student Loan.

**Ed Moulton College Loan Fund.** The Ed Moulton Loan Fund and College Loan Fund were combined in 1974 to offer short term loans. Loans are given up to a maximum \$400 at 12% annual interest. Applications may be secured from the Financial Aid Office. The Ed Moulton Loan Fund was established in 1956 in memory of Ed Moulton, a former Towson State College Student. The Sarah E. Richmond Loan Fund was established by Sarah E. Richmond, who was affiliated with the College for 50 years as student, teacher, principal, and dean of women. This fund has been increased by gifts from the Alumni Association. Other contributions to the College Loan Fund are from the following: James Saxton Memorial, the Class of 1900 Memorial to Katherine Muhlback, the Class of 1925, the Normal Literary Society, the Pestalozzi Society, the Reese Arnold Memorial, the Lillian Jackson Memorial, the Esther Sheel Memorial (Class of 1927), the Carpenter Memorial, the Eunice K. Crabtree Fund gift of the Class of 1931), the Pauline Rutledge Fund (gift of the Class of 1934), the Pearle Blood Fund (gift of the Class of 1940), the 1933 Gift Loan Fund of Faculty and Students, the Gertrude Carley Memorial, Washington County Alumni, the Grace Boryer Downin Fund, the Class of 1941 Fund, the Martha Richmond Fund, the Towerlight Fund, the M. Clarice Berch Fund (gift of the Class of 1951), the Bettie Sipple Fund sponsored by the Maryland Federation of Women's Clubs, the Lucy Scott Memorial Fund, the James B. O'Toole, Jr. Memorial Loan Fund, the Ellen Pratt Hamilton Memorial Loan Fund, the Rodgers Forge PTA Loan Fund in memory

of Ellen Pratt Hamilton, the Delta Beta Delta Loan Fund, and periodic contributions from the Alumni Associations.

### State Loan Program

The Maryland Higher Education Loan Program is geared toward the family with less actual financial need, but who desires to utilize credit to meet college expenses. These bank loans provide up to \$1,500 per year for undergraduates and \$2,000 for graduate students. The federal government pays the 7% interest for students from families with adjusted incomes under \$15,000 while they are in college. Families with adjusted incomes over \$15,000 may qualify for the interest waiver if need is demonstrated. Loans may also be secured without the federal interest benefit. Applications may be received and must be processed by the financial aid office before final arrangements for the loan are made with the bank. Further information may be received from the financial aid office.

### State Scholarships

- A. The state of Maryland each year awards General State, House of Delegates, and Senatorial Scholarships to legal residents of the state. Interested high school students should consult their school counselors. Students presently enrolled at Towson State College may obtain an application from the Financial Aid Office or the State Scholarship Board, 2100 Guilford Avenue, Baltimore, Maryland. The application deadline is in December for the following academic year in the General State program. There is no deadline for the other two programs.
- B. War Orphans. Students between ages 16-23 who have lost one or both parents during or after World War II in military service or whose parent(s) is a totally and permanently disabled Veteran, is eligible to apply. Applications may be obtained from the State Scholarship Board, 2100 Guilford Ave., Baltimore, Maryland 21218.
- C. Vocational Rehabilitation Program. Grants are available to students with physical handicaps. Applications may be obtained from Vocational Rehabilitation, 2100 Guilford Avenue, Baltimore, Maryland 21218.
- D. Professional School Scholarships in tuition are available to TSC students majoring in Nursing. Further information should be obtained from the TSC Financial Aid Office.

**College Scholarships.** The Helen Aletta Linthicum Scholarships were established by the will of Mrs. Linthicum, widow of J. Charles Linthicum, who was a member of the class of 1886. The fund is administered by the trustees of the estate and the Financial Aid Office. All entering and continuing students are eligible to qualify for these sixty awards. The Edith C. Sheridan Scholarship, established by Mrs. Sheridan, a member of the class of 1906, is also administered by the Financial Aid Office. One upper-class student may receive the Minnie V. Medwedeff Endowment Scholarship. This award is made annually to an outstanding student selected by the trustees of the fund. The scholarship was established in memory of Minnie V. Medwedeff by her father. Miss Medwedeff was an instructor in the College from 1924 until her death in 1935. The Alice B. Gibson Scholarship fund was established in 1969 to be awarded to an upperclassman majoring in early childhood or elementary education. The scholarship is awarded by the Financial Aid Office. The Herbert A. Siegel

Scholarship fund was established to be awarded to an outstanding student majoring in psychology. The *Heidi Livingston Scholarship* fund was established to be awarded to a student majoring in music. Other scholarships include: the Jean B. Crow Memorial Fund, Jennifer L. Thomas Memorial Fund, John David Horst Memorial Fund, James Moniodis Scholarship Fund, the "A" Scholarship Fund, John J. Leidy Scholarship, Rachel Rosen Scholarship Fund, Velie Scholarship, F. M. Schaeffer Scholarship, Michael Joseph Melkisetian Memorial Scholarship, and the Endowment Fund Program for Latin American, Spanish and Portuguese Students in Memory of Dr. Francisco Sabin.

**Regular Student Employment.** (Other than Work-Study) positions as well as off-campus job positions are maintained on the Job Boards in the Financial Aid Office and the College Center. The on-campus jobs may be in the various areas throughout the College. Clearance from the Financial Aid Office is required. All students on the College payroll must be in good standing. The off-campus jobs are posted on the Job Boards and are received from outside organizations during the academic year and summer. These jobs include work for a variety of community agencies and stores and summer camp experiences.

## HOUSING

The purpose of the Housing Program is to provide living facilities for full-time undergraduate students and to provide educational programs and activities which supplement the academic mission of the college. The Residence Staff and the elected executive councils of the Resident Student Government Association strive to maintain an environment conducive to the individual's achievement of academic goals and development of self-reliance and leadership.

A referral service for off-campus housing is provided through the Housing Office. Students in need of off-campus housing may obtain listings of rooms and apartments available in the Towson area from the Director of Off-Campus Housing, Newell Hall 01.

Priority for campus residence is given to students who reside beyond a twenty-mile radius of any four-year state institution. Priority for space assignment is given to students participating in specific educational programs.

All resident students must sign a yearly contract for college housing. A student who withdraws from housing forfeits the reserve space but may reapply should he/she wish to return. Students already in housing are usually given priority to return.

Residence facilities are available to students only when classes are in session. No student is permitted to remain in residence more than forty-eight hours after ceasing to attend classes.

## CAREER PLANNING AND PLACEMENT

The Placement Office is a centralized service for all departments of the college. The purpose of the Placement Office is to assist all students of Towson State College in securing employment.

The Placement Office furnishes occupational and vocational information and provides career counseling for all interested students, arranges for an on-campus recruiting program to bring employers to the campus to meet the students, informs students of job opportunities, and keeps on file credentials for all students utilizing the services of the Placement Office.

## HEALTH SERVICES

Health Services are maintained in a modern two-story building located on campus. For specific information, the student is referred to the Health Center Booklet which is distributed to all new students.

For more serious illnesses, the student will be referred to his or her home or hospital for definitive treatment. With the student's knowledge and consent, the staff works closely with the parents and/or family physician in all important illnesses or accidents.

The professional staff consists of college physicians, college psychiatrists, registered and practical nurses. Physician Services are available daily during office hours, and in emergency situations at any time.

A completed medical record is required of all students prior to the time of their admission. Certain exceptions may be made for those applicants whose religious principles preclude compliance and whose affiliation with a church is official. Additional examinations are given when conditions warrant. A student is expected to correct remediable defects as soon as possible, preferably before the opening of the college year.

Chest X-rays or other proof of freedom from tuberculosis (i.e. a negative tuberculin test) are compulsory for all entering students. Health education and prevention of illness and accident are essential parts of the college health program.

The College assumes no financial responsibility for illness of sufficient seriousness to require hospitalization, X-rays, or special treatment. The College does not assume financial responsibility for any injury incurred upon the athletic field or in any physical education class.

A student who has a physical condition which prevents complete participation in the regular physical education program may be permitted upon authorization of the College Physician and the Academic Standards Committee to take a modified program or to be exempt from physical education requirements.

## Accident Insurance

For the benefit of those students who wish to participate, the College enters into an agreement with an approved insurance company to cover students against any accidental injury either at College or at home during the academic year. Participation in the plan is voluntary and costs approximately \$25.00 per year. Students desiring this coverage should make application at the Comptroller's Office.

## LIBRARY FACILITIES

The Albert S. Cook Library was opened in 1969. A functional, open stack library near the center of the campus, it has a seating capacity of 1,500. Among its facilities are faculty studies, individual tables for quiet study, typewriters, reading machines for microforms, equipment for listening to tapes and records, and Dial Access equipment.

With a collection of over 260,000 volumes and subscriptions to over 2,000 periodical titles, the library is a growing and increasingly important part of the college community. In order to provide proper library resources to support the curriculum, the faculty select most of the 25,000 volumes which are added each year. The Library has a U.S. Government Documents section, collections of textbooks and curriculum guides for elementary and secondary education, a collection of educational resource documents (ERIC), a collection of Early English Literature, a strong

Women's Studies collection, and a collection of early American periodicals.

In addition to the materials in the Cook Library Towson students are fortunate to have nearby the vast resources of two major public library systems and the Maryland Historical Society Library. Towson also has a cooperative borrowing agreement with other state college libraries.

## COLLEGE CENTER

The complexity of society, campus bureaucracies, advances in communication, increasing enrollments, professional pressures on faculty, and changes within individuals are producing impersonal communities of intellectuals. College Center facilities are designed to overcome the impersonalization of the large college, serving both as an educational center for out-of-class activities and also as a service center. The College Center as a program is organic, vital, changing, and alive. The Center houses educational and cultural programs of value for the entire academic community, which complement programs offered in the classroom. The Center is also the place where resident and commuting students, faculty, staff and alumni can establish their social activities, relax, and make the out-of-class time in their lives meaningful. The College Center displays, through its facilities and programs, to its various publics the character of the institution it serves.

The first level of the three-story brick structure includes a Snack Bar, Bookstore, Vending Area, Post Office, Dry Cleaning Service, Locker Rooms, Music and Study Lounge, T.V. Lounge, Billiards and Games Room, and eight bowling lanes. The second and main level of the building includes a Snack Bar, a Dining Room and Lounge, Art Gallery, spacious main lounge area, candy and tobacco counter, student organization offices, campus reservations offices, College Box Office, and College Center administrative offices. The third level of the building contains the Studies Skills Center, eight conference rooms, a photographic laboratory, a reception lounge, and a large multi-purpose room which is divisible into three sections. Covered deck areas, lobbies, patios, and fountains round out the Center. Catering services are provided throughout the center upon request.

Although many may come to the Center for food, it differs from other campus buildings in the following respects: Individuals for the most part must choose to come to the Center. The activities housed in the building are extra-curricular and voluntary. The students participating in special interest or governmental groups have an opportunity to experiment, assume responsibility, interact with the faculty and administration and by so doing come to know more about themselves and the College.

## College Box Office

The College Box Office Manager provides students, faculty, and administrators with a discounted ticket service to the local theaters. The manager will arrange for the purchase of any tickets for recognized groups on campus. The Manager also handles the student sponsored activity tickets and arranges for off-campus travel of student groups. Notary Public service and MTA bus token sales are handled through the Box Office as well as Greyhound Bus ticket sales to anywhere in the Continental United States.

## Post Office

The Post Office is located in the first level of the College Center. All resident students are assigned a mailbox and should visit the Post Office to receive their box number

and combination. Commuter students who desire a mailbox are assigned the remaining mailboxes on a first come, first served basis beginning with the second full week of classes.

## College Book Store

The College Book Store is located in the College Center and carries a complete line of books, trade fiction, non-fiction paperbacks, reference, technical, and course outlines and aids.

Also for sale are general school supplies, typewriters, leather goods, college clothing, gifts, records, and toiletries. The College Store also carries a complete line of art supplies and a wide selection of arts prints. Framing materials are also available. The Bookstore is also the headquarters for the official Towson State College ring.

BankAmericard and Master Charge credit cards are accepted for personal charges at the store.

## Recreation Center

The Recreation Center is located on the first floor of the College Center and is divided into two central areas of recreational activity. The Billiard Area, located in the upper level provides an extensive variety of leisure entertainment in the form of activities ranging from billiards and table tennis to coin-operated air hockey and amusement machines. The Bowling Lane Area, located in the lower level, is equipped with eight American Bowling Congress approved lanes and a snack bar facility.

The Recreation Center provides additional sport activities in the form of League competition; there are numerous Billiard and Bowling Leagues. Also provided is a complete newspaper subscription service, including out-of-town papers. The T.V. Lounge and Music Listening Rooms are located within the bounds of the Recreation Center.

## STUDENT GOVERNMENT ASSOCIATION

The Student Government Association is the governmental organ of the student body. It is an integral part of the college community and is recognized as a contributing organization in the overall government of the College.

Upon enrollment at Towson, each full-time student automatically becomes a member of the SGA. The organization consists of an executive committee, composed of the President, Vice President and Treasurer of the SGA and various appointed officers, and a Student Senate composed of eighteen senators, 14 elected at large and one from each class.

The broad objectives of the SGA are outlined in the Preamble of the Student Government Association Constitution:

1. To improve student awareness and welfare.
2. To foster the recognition of the right and responsibilities of students.
3. To responsibly fulfill those privileges of self-government.

The activities of the Student Government Association primarily concern the educational experiences of the student, as a member of the College community, both in and out of the classroom. These activities are justified in a collegiate setting by the extent to which they contribute to the educational experience of each student. All students are invited to aid the SGA in their expressed goals and objectives.

The Student Government Association has most recently involved itself in such major activities as a Speakers'

Series, Tutorial Project, and an Outstanding Faculty Grant Program.

**STUDENT ORGANIZATIONS**

Groups of students may feel free to meet in campus facilities. In order to be recognized as a College organization, however, their constitution must be approved by the SGA.

Recognized student groups include music organizations, honorary societies and fraternities, organizations related to an academic field, political organizations, religious organizations, service organizations, social fraternities, athletic organizations, and special interest organizations.

All Student Organizations meet bi-weekly in a Council of Organizations whose purpose is to coordinate the activities of all the groups and to provide for more comprehensive planning.

Student publications are: Talisman, a literary magazine; Towerlight, the weekly official student newspaper; Tower Echoes, the yearbook; Gold and White, the official student handbook; the Journal of International Affairs; the Student Telephone Directory and the Who's Who of Student Leaders.

**Athletic Activities**

Towson State College is committed to comprehensive intercollegiate and intramural athletic programs for men as integral parts of the student's total educational experience. An opportunity is provided for all students who desire to participate. The College is a member of the National Collegiate Athletic Association and the Mason-Dixon Conference. The varsity schedules include many of the finest universities and colleges in the East. Competition

on the varsity level includes football, soccer, cross country, basketball, wrestling, swimming, gymnastics, baseball, lacrosse, tennis, track and golf. Facilities and leadership are provided for intramural sports during all seasons. Students are encouraged to participate according to their interest.

The Women's Intercollegiate Athletics program, under the sponsorship of the Women's Physical Education Department, provides competition on a varsity and junior varsity level in basketball, field hockey, gymnastics, lacrosse, swimming, tennis and volleyball. Through its memberships in the Association for Intercollegiate Athletics for Women and the Eastern Association for Intercollegiate Athletics for Women, Towson has participated in state, regional and national championships.

The Women's Athletic and Recreation Association promotes an intramural and recreational program through a variety of activities and special events such as bowling, volleyball, dance, camping, archery, softball, and an annual banquet.

**Recreation**

Towson State College offers intramural activities in twenty-one different sports. Table tennis, box lacrosse, coed water-polo, track and field, and badminton are just a few. Intramural participation involves entry forms, pre-arranged schedules and facilities, supervision, student officials, individual and team sports. Students, faculty and staff are encouraged to participate.

Recreation emphasizes self-motivated and impromptu spontaneous activity. Students, faculty and staff are encouraged to use facilities, swimming pool, basketball courts, tennis courts, weight training, volleyball, badminton courts and squash/racquetball courts.



# Academic Regulations

## REGISTRATION

Each student is assigned a time to register. Students are not permitted to attend classes without having completed registration. A late registration fee is assessed for registering after the time assigned and within the late registration period. Students are expected to discharge all financial obligations to the institution before being permitted to register.

## CLASSIFICATION OF STUDENTS

Students are classified according to the number of semester hours passed as follows: freshmen, 0-28 semester hours; sophomores, 29-55 semester hours; juniors, 56-89 semester hours; seniors, 90 semester hours or above.

## TRANSFER CREDIT

Credit is accepted by Towson State College for a course completed at any regionally accredited college or university. This credit will count toward graduation but will not be used in computing the academic average required for graduation.

Students with 64 or fewer credits at the completion of the work taken for transfer credit may take courses at any regionally accredited educational institution (two or four year institutions).

Students with more than 64 and less than 90 credits at the completion of work taken for transfer may take courses at any accredited four year institution.

Courses must be in programs offered at Towson State College.

Courses must not have been previously accepted for transfer credit or completed for credit at Towson State College.

A grade of "D" or higher must be attained for students electing or required to graduate under the 120 credit graduation policy.

Students may not transfer more than 64 credits to Towson State College from a two-year institution.

Students taking courses as part of the last 30 credits required for graduation or for major credit must obtain prior approval of the Towson State College Academic Standards Committee.

Students taking courses for credit toward the major must obtain prior approval of the Department of the major.

## CREDIT HOURS

The unit of credit is the semester hour. It is defined as one 50-minute class per week (or its equivalent) for one semester. A three-hour class meets three 50-minute periods or two 75-minute periods a week for one semester. Laboratory and studio classes normally require two or three hours in class as the equivalent of one semester hour. Two hours of preparation is usually necessary for each hour in class for the average student.

## PROGRAM TRANSFER

Students in good standing in either the teacher education or the arts and sciences program may transfer to the other program by filing a request form with the Registrar, as Secretary to the Academic Standards Committee. Upon approval of the Academic Standards Committee, the transfer will be effective for the semester following the one in which the request is made.

Those wishing to transfer to the arts and sciences program will be obligated in the amount of \$100 for each semester of work completed in the teacher education program if the teaching pledge was signed in lieu of tuition payment.

## EXEMPTION FROM REQUIRED COURSES

Believing that students should not be required to devote time to courses the substances of which they have mastered, the College provides opportunity to qualify for exemption from required courses. Towson students may apply through the appropriate academic department to be examined for exemption from courses required of all students and those required in a major field. When exempted, the student is privileged to choose an elective in any department or an advanced course in the same department. Required courses in the following fields are at present involved in this plan: biology, English, geography, mathematics, music, speech, history, political science, and sociology. Credit for Experience and previous Learning is an option also open to students. See Admissions, page 11.

## STUDENT LOAD

The normal student load is 15-18 semester hours of credit each semester.

Students may take up to 19 semester hours for credit. It is suggested that students possess a minimum cumulative average of 2.00 to take 18 semester hours and a cumulative average of 2.50 to take 19 semester hours.

Students with a 3.25 cumulative average based on at least 30 hours taken at Towson State College may carry 20 hours. In his last semester of his senior year a student may carry 20 semester hours provided the number is necessary to be graduated and provided his cumulative average is 2.50 or better.

Students with a 3.50 cumulative average or better, based on at least 30 hours taken at Towson State College may carry 21 hours.

No student will be permitted to carry more than 21 hours except by special permission of the Academic Standards Committee.

A student wishing to carry less than 12 hours must obtain the approval of the Vice-President for Student Affairs.

Students must have the approval of the Registrar to register for more than 19 semester hours during any one semester.

## AUDITING COURSES

A student may audit a course with the permission of the instructor of the course. No credit may be earned in a course which is audited. Audited courses will not appear on the student's record. Students who wish to take the course for credit may do so only during the Change of Schedule Period as an added course.

## CHANGE OF COURSE SCHEDULE

All changes in a student's schedule of courses (adding or dropping a course or a change in sections or credits) are valid only if the student completes the Course Schedule Change Form and files it with the Registrar. Failure to do so will result in a grade of "F" or "FX" in the course dropped and no credit in the course added. The grade will

appear on the Grade Roster of the course and the student's permanent record.

No student may enter a class after the first week of classes. Exceptions to this will be considered only after approval of the department chairman of the course involved and the Dean of the College.

Entering freshmen wishing to obtain waiver of courses for the honors plan may arrange to take Advanced Placement Tests of the College Entrance Examination Board in fields in which they feel qualified. Arrangements to take these examinations in May of the high school senior year may be made through the school counselor or through the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

WITHDRAWAL FROM A COURSE

Students wishing to drop a course may do so as follows: Students may drop up to the end of the first two weeks of classes and no grade will be recorded.

Students who have not dropped a course at the end of the first two weeks of classes may withdraw from a course up to three weeks after the mid-semester date. Students withdrawing during this period will have the grade of "W" recorded for the course. This grade may be removed by repeating the course.

Students registered for a course who do not drop or withdraw during the periods referred to above must receive grades of A, B, C, D, F or I as determined by the faculty member. Those students who register and do not receive a grade from the instructor because of non-attendance, will be assigned a grade of "FX".

MARKING AND POINT SYSTEM FOR STUDENTS  
EFFECTIVE SEPTEMBER 1976

A four-point system is used to identify quality of academic work. The letter "A" designates work of superior quality; "B", work of good quality; "C", work of satisfactory quality; "D", work of less than satisfactory quality but allowable for credit, subject to the restrictions under the Degree Requirements; "F", work of such unsatisfactory quality that no credit is given. Grades of "PS," "PE," "S" are equivalent to a grade of "C" or higher. The grade of "S" (Satisfactory) or "F" is assigned for non-credit courses, student teaching and certain designated courses in which there is no letter grading. A grade of "FX" is assigned when a student registers for a course and does not attend or neglects to withdraw officially from the course, or from the college, by the last published date to drop a course. The grade of "PS" (Pass) is assigned for a course elected on the Pass Option when the student receives a grade of "A," "B," or "C." The student that receives a grade of "D" or "F" on the Pass Option will have the "D" or "F" recorded on the permanent record and used in the computation of averages. The grade of "PE" is assigned for courses passed under the Credit for Experience or Previous Learning option. All grades are recorded on the student's permanent record.

A mark of "I" (incomplete because of illness or other reason beyond the control of the student) at the end of a semester carries no credit. It is the responsibility of the student to make arrangements to complete course requirements for the removal of the "I". Unless such a course is satisfactorily completed by the last day of the next regular semester, the grade for the course becomes "F".

The following quality point values are used to compute grade point averages.

- A—4 quality points
- B—3 quality points
- C—2 quality points
- D—1 quality point
- F, FX—0 quality points

Grades of "I," "PS," "PE," "W" and "S" are not used in computation of averages.

The grade-point average is computed by multiplying the hours of credit in a course by the points assigned to the grade earned in the course. Totalling the credit hours points for all courses taken in the semester, and dividing the total number of points by the total number of hours of credit attempted yields the grade-point average for the semester. For example:

4 hours of A	(4 points each)	.....	16 points
4 hours of B	(3 points each)	.....	12 points
3 hours of C	(2 points each)	.....	6 points
3 hours of D	(1 point each)	.....	3 points
2 hours of F	(No Credit Given)	.....	0 points
2 hours of FX	(No Credit Given)	.....	0 points
18	Total hours attempted		37 Total points

Dividing 37 by 18, the student's grade-point average for this semester is found to be 2.05.

The student's cumulative grade-point average is found by dividing the total points earned in all courses completed at Towson by the total number of credit hours attempted at Towson (excluding from this computation those credit hours attempted during the period 1 September 1973 to 31 August 1976 for which the grade of "NC" was assigned). For example: a junior has attempted 76 credit hours and has earned a total of 190 points. His cumulative grade-point average is 2.50.

REPEATING OF COURSES

Students may repeat a course only once where credit has been earned or a mark of "F," "FX" or "W" has been awarded, except by prior approval of the Academic Standards Committee. When the course is repeated, the student will receive the credits for the course counted once and the higher of the two grades if repeated for the first time after 1 September 1970. Students repeating courses must indicate this at the time of registration. Upon completion of the repeated course a change of grade form must be submitted to the Registrar by the student concerned. The lower of the marks earned is not maintained on the student's permanent record.

STANDARDS OF WORK REQUIRED

Philosophical Premises

Academic Standards are set to insure that a degree from Towson signifies student work meeting or exceeding a particular level of excellence.

The intent is to reinforce appropriate learning behavior, and to help the student work independently and develop intellectually in a variety of ways.

STANDARDS FOR FULL-TIME STUDENTS

In order to remain in the college, a student must possess a cumulative point average as indicated below.

REQUIRED MINIMUM GRADE POINT  
AVERAGE TO BE IN COLLEGE

Credits Attempted	Minimum GPA	Minimum Level of Satisfactory Progress
1-19	1.10	1.75
20-29	1.50	1.85
30-39	1.65	1.85
40-49	1.80	1.95
50-59	1.90	1.95
60 and above	2.00	2.00

No student will be dismissed at the completion of a semester when a semester average of 2.00 or higher has been attained.

### **TRANSFER STUDENTS**

A transfer student, at the end of the first semester, must earn a grade point average as shown above on total credits attempted. However, no student will be required to earn more than a 1.50 grade point average during the first semester. In succeeding semesters a transfer student must attain a grade point average as shown above. (For instance, a student who has earned 52 credits at the end of two semesters at Towson must have a grade point average of not less than 1.90 at that time in order to remain a full time day student.)

### **FIRST TIME FRESHMEN**

Students entering college for the first time must meet the standards for full time students after two semesters of study.

### **NORMAL PROGRESS AND MAXIMUM LENGTH OF ATTENDANCE**

It is expected that a student will attain one hundred and twenty semester hours of credit and complete graduation requirements in eight semesters of study allowing an average credit load of fifteen hours per semester. However, if necessary, a student will be permitted a maximum of ten semesters of study allowing an average credit load of twelve hours per semester.

The number of semesters of study for transfer students will be determined by dividing the number of credits transferred in by 15, rounding the answer to the nearest lower whole number. For instance, a student transferring 33 hours will be considered to have completed two semesters of study.

### **PASS OPTION**

Students may be able to elect on a voluntary basis twelve hours toward their degree for which they may be graded on a pass/D/F basis. If a student registers for more than six semester hours in one semester, only six may be counted toward graduation. This option is not available for courses required for a major and for certification in Teacher Education unless special permission is obtained from the department concerned. This option must be elected prior to the end of the second week of classes. The faculty may obtain from the Registrar the names of students in their classes who have elected the pass option.

### **PROCEDURES FOR REINSTATEMENT**

Those no longer in good standing may appeal for reinstatement. In most cases students who are dismissed for academic purposes will be expected to remain out of the day school for two semesters. Those students who bring their cumulative average up to the GPA required by taking courses in the Evening, Summer Program and January Session are eligible for reinstatement; however, a student must take courses in which letter grades are given in order to have this work apply before the completion of the one year period. A student must achieve an average of 2.00 on all work taken during the period of academic dismissal. Up to 18 credits can be taken in the Evening and Summer

Program for this purpose. Deadline for readmission is 15 August and 15 December.

In evaluating requests for reinstatement, the Academic Standards Committee, without changing previous policies, will weigh heavily an indication of improved performance. The personal development of each student is considered. The College may exercise its right to ask a student to withdraw at any time.

### **DEGREE REQUIREMENTS**

#### **Bachelor of Arts Degree**

Those wishing to qualify for a Bachelor of Arts degree in lieu of the Bachelor of Science degree may do so by fulfilling the requirements for the Bachelor of Science degree and by completing the intermediate course or the equivalent of a modern foreign language.

#### **Bachelor of Science Degree**

A student who satisfactorily meets the following requirements will receive the Bachelor of Science degree.

1. A minimum of one hundred twenty hours and a maximum of one hundred thirty-five hours of college credits which must include Freshman Composition or its equivalent and thirty-two hours of upper division work.
2. Credit in the courses required of all students, of which Freshman Composition or its equivalent must be passed with a grade of C or higher.
3. Credit in the required courses of the curriculum the student has elected.
4. Successful completion of a major.

With prior approval of the Standards Committee, a student may substitute an interdisciplinary program designed to meet his/her particular objectives.

A mark of "C" or higher is required in all courses taken in the department and applied toward the major or minor of that department. If this standard is not attained, the student must repeat the course or substitute another course in the field at the direction of the department.

5. A cumulative average of at least 2.00.
6. Record of attendance at the College for at least one academic year during which thirty semester hours of credit were earned. A student must earn the final thirty credits at the College unless permission is granted by the Academic Standards Committee to earn the credits at another institution.
7. Demonstration of personal qualities which are expected of an educated person.
8. Filing with the Registrar a Graduation Application according to following schedule:

December graduates must file an application by May 31st of the year of graduation.

June graduates must file by September 30th of the year prior to the date of graduation.

September graduates must file by March 31st of the year of graduation.

A student who entered a college as a degree candidate September 1972 and thereafter must earn a minimum of 32 hours of upper division work as one of the requirements for graduation at Towson State College.



GENERAL COURSE REQUIREMENTS OF ALL STUDENTS

The general college requirements affect all incoming freshmen and transfer students. However, Towson State College returning students have the option of remaining on the plans under which they were admitted providing no more than seven years has lapsed since initial admission or electing to follow the new plan.

All students are reminded that the adoption of a new set of General College Requirements does not change their departmental requirements, or the requirements for State Certification of teacher education students. Students should consult their advisors if they have any questions regarding their degree programs.

Group I

Art, Communication Arts and Sciences, English\*, Modern Languages (the first semester of any elementary course cannot be used), Music, Philosophy, Theatre Arts (at least two courses must be taken in English; courses must be completed in at least four different disciplines).

Number of One-Semester Courses 6\*\*

Group II

Biological Sciences, Chemistry, Mathematics, (including Computer Science) Physics, (including Physical Science) Psychology (courses must be completed in at least three different disciplines).

Number of One-Semester Courses 3\*\*

Group III

Anthropology, Economics, Geography, History, Political Science, and Sociology (courses must be completed in at least three different disciplines).

Number of One-Semester Courses 4\*\*

Group IV

Health Science, Physical Education (at least one course must be in Physical Education).

Number of One-Semester Courses 2\*\*

\* English 30.102, Freshman Composition (or equivalent) must be completed with a grade of "C" or higher to meet graduation requirements.

\*\* At least one hour of credit in each course must be earned.

OPTIONAL GENERAL COLLEGE REQUIREMENTS PLANS

A. Optional general college requirement plans are permissible under certain circumstances when approved by the Curriculum Committee. Additional information available in the Office of the Registrar.

B. Transfer students with 56 credits or more at the time of admission will be given credit for having met the general requirements of the College provided all of the following conditions are met:

- 1. The student transfers from the sending institution with a minimum of 39 semester hours credit, or 15 one-semester courses, in the Arts and Sciences.
- 2. Courses are taken in a minimum of 10 of the following disciplines.

Art	Physics
Communications Arts and Sciences	Psychology
English	Anthropology
	Economics

Modern Languages	Geography
Music	History
Philosophy	Political Science
Theatre Arts	Sociology
Biological Sciences	Health Science
Chemistry	Physical Education
Mathematics	

- 3. With reference to Towson's General Course Requirements of all students see page 33. Courses were taken in two disciplines each in Groups I, II, and III, and one course in Group IV.

Transfer students who have not completed the general college requirements under this option at the time transfer is made will be required to comply with the general requirements for native students at Towson State College.

Students are responsible for meeting in full the requirements for graduation as set forth in the College Bulletin. When the requirements are changed after a student has enrolled in the College, the student has the option of meeting in full the graduation requirements that were in effect at the time of his/her initial college enrollment as a degree candidate or those that are in effect at the time of graduation, if graduation occurs within seven years of date of admission. If the student does not complete graduation requirements within seven years, he/she must meet the requirements in effect for his/her graduating class. When the College withdraws former required courses, the Standards Committee will approve substitutions for students graduating under the former requirements. The student's advisor assists in the planning of a program, but the final responsibility for meeting the requirements for graduation rests with the student.

ATTENDANCE

Students are expected to attend all classes. Each faculty member sets his/her own policy on absences. Policies vary and it is the responsibility of the student to understand clearly the absence policy of each instructor and to act accordingly. Students are expected to notify the Health Center and instructors by phone or in writing of any absence exceeding three days.

WITHDRAWALS

A student wishing to withdraw from the College is to obtain a withdrawal card from the Office of the Dean of Students. Before the withdrawal is official, the student must submit the completed withdrawal card to the Office of the Registrar.

A student who withdraws subsequent to the last day to drop a course will be assigned the grade of "FX" unless withdrawal is for medical reasons or other extenuating circumstances. If withdrawal is for medical reasons and is so documented, a grade of "W" will be assigned for all courses in which the student is registered. If withdrawal is for extenuating circumstances and can be documented, an appeal should be addressed to the Academic Standards Committee.

SEMESTER OF STUDY

Each semester a student registers and has not cancelled or withdrawn prior to the first day of class counts as a semester of study.

Withdrawal for medical reasons or entry into the Armed Forces will not count as a semester of study if verified.

Those students withdrawing from the College who in-

tend to return must comply with the deadlines established for readmission. If readmission procedures are completed by 30 April for the fall semester or 30 November for the spring semester they will be given the opportunity to pre-register. Final deadlines for submission of the request for readmission are 15 August for the fall semester and 15 December for the spring semester.

### TRANSCRIPTS OF ACADEMIC RECORD

Transcripts will be sent only upon written request of the student. Transcript request forms may be obtained at the Office of the Registrar. The College requires at least two weeks notice for issuance of a transcript record. A fee of \$2.00 will be assessed for each request.

A student with an outstanding indebtedness to the institution will not be eligible for transcripts of record.

### HONORS PROGRAMS

Under the direction of a College Honors Programs Board, a number of departments of the College offer Honors Programs in their disciplines or cooperatively offer interdisciplinary Honors Programs. The student who completes an approved program will receive a diploma with the designation Bachelor of Arts or Bachelor of Science with honors in the appropriate discipline.

The program is developed for the junior and senior years and includes 9 to 12 semester hours credit in seminars, directed readings, and research projects. A senior thesis is required as well as an oral defense of the thesis. A candidate will also be expected to make a respectable showing on the Graduate Record Examination.

To be admitted to the program a student must present a cumulative average of 3.25 and a 3.50 cumulative average in his/her discipline. To graduate from the program the recipient of an Honors degree must present a 3.25 cumulative average and a 3.5 cumulative average in his/her discipline.

Details of the departmental plans may be obtained from the office of the department chairman.

The Dean's List is published following the completion of each fall and spring semester. Students who are degree candidates and complete a minimum of 12 semester hours for credit in regular grade granting courses with a semester average of 3.50 or higher will be so honored.

### Graduation with Honors

To receive a bachelor's degree with honors, a student must have completed work taken at Towson State College with the following cumulative grade point average:

- 3.75 to 4.00 Summa Cum Laude
- 3.50 to 3.74 Magna Cum Laude
- 3.25 to 3.49 Cum Laude

Students must have, in addition, a 3.25 or better average for work completed at other institutions and a minimum of 56 semester hours of work at Towson State College. If students meet all other requirements, the Academic Standards Committee will hear an appeal of the 56 semester hour rule.

Transfer students eligible for Summa Cum Laude awards based on work completed at Towson State College must be approved by the Academic Standards Committee.

To receive a bachelor's degree with honors in a discipline, a student must have completed a departmental honors program and be recommended for honors by that department.

Students who do not qualify for honors because of their overall GPA may petition the Academic Standards Committee if they meet the following criteria:

"A student who in his/her last 60 credits at Towson State College attained a cumulative average of 3.50 or higher."

The student who is approved for graduation honors listed above will receive the Cum Laude honor from Towson State College.

Academic Regulations are effective the date of the current Catalog (unless otherwise stated) and are applicable to all students regardless of date of initial college enrollment as a degree candidate.

### ACADEMIC ADVISING

For assistance in reviewing and understanding academic regulations, contact the Academic Advising Office, room 216, College Center.



# The College Curriculum

## THE ARTS AND SCIENCES PROGRAM

The Arts and Sciences program at Towson offers to students a broad background in the liberal arts which will help prepare them to pursue a variety of careers. The section which follows describes some of the career areas for which programs at Towson provide preparation. Students may obtain further information from their advisors regarding the kind of preparation most appropriate to their career interests.

Students who plan to attend graduate or professional school are urged to examine carefully the catalog of the institution they wish to attend so that they can obtain the most appropriate preparation at Towson. In some professions, such as law and medicine, it is usually advisable for the student to complete a four-year liberal arts course before beginning professional study. In some others, students should plan to transfer to professional school after one, two, or three years of liberal arts preparation. Current catalogues of graduate and professional schools are on file in the Admissions Office for interested students. The Dean of the College has available additional information regarding opportunities for advanced study, including fellowships and scholarships.

## Business and Industry

The program in Business Administration offers career preparation to students planning to seek employment in a variety of positions in business or industry following graduation. Special areas of concentration within the program are available in accounting, finance, marketing, personnel and international business. This permits students to combine a broad general background in business and intensive preparation in a specialty of their choice. The program in Business Administration provides preparation to students planning to enter such diverse career specialties as accounting, administration and management, credit, sales, personnel, advertising, marketing, and purchasing in a variety of business and industries including banking, insurance, wholesale and retail firms, manufacturing, transportation, and communications.

As a supplement to their training in business administration, students wishing to pursue careers in business in advertising, public relations, or writing should place heavy emphasis upon the improvement of their skills in human relations and oral and written communications through coursework in English and Mass Communications. Students wishing to become personnel workers in business should supplement their basic preparation in business administration with additional courses in psychology, English, and Mass Communications in order to enhance their skills. Students wishing to work in business as computer programmers or systems analysts should include as much work as possible in mathematics and computer science in addition to their basic preparation in business administration.

Students interested in pursuing a scientific career in business or industry may select from a number of programs available at Towson. For example, the major in Chemistry may prepare them for work in industrial research and product development, quality control, and industrial sales and management. The major in physics, supplemented by courses in computer science, mathematics, chemistry, or biology, is appropriate training for

students wishing to enter the field of scientific research in industry.

## Government and Public Service

Many of the career specialties described above, including accounting, administration, management, and personnel work, may be pursued in government as well as in business and industry. Preparation for such work in government would not differ greatly from that required for business.

Some careers in government such as the Foreign Service of the Department of State, for example, do require special preparation. Students considering a career in the Foreign Service may be interested in the program in International Studies at Towson, an interdisciplinary system of courses representing business administration, economics, geography and environmental planning, political science, and sociology. The program in International Studies permits students to acquire a broad general background in each of these areas and, if they wish, to gain expertise in a particular geographical region such as Europe, Africa, or the Middle East. Students wishing to pursue a career in the Foreign Service are strongly urged to strengthen their skills in the use of the English language and also to achieve high proficiency in at least one foreign language.

In local government an increasing number of law enforcement and correction personnel are required. Students wishing to pursue a career in law enforcement and correction will find the Law Enforcement and Correction option within the Arts and Sciences major of interest. This option, designed to provide an opportunity for in-service law enforcement and correction personnel to further their education beyond the junior college, is available also to Towson undergraduate students. It is intended to provide a strong interdisciplinary background in sociology, psychology, and political science as a means of helping students to improve their skills in communication, their understanding of the nature and causes of human behavior, and their ability to make informed decisions.

## Law

Students wishing to enter law school following graduation are urged to concentrate upon the improvement of their speaking, writing, and reasoning skills. Several options are available to them for their academic preparation at Towson. A pre-law program is available within the liberal arts major, allowing the student to pursue a course of study individualized to meet his/her particular interests, needs, and abilities. The student also may elect, upon the advice of the pre-law advisor in the Department of Political Science, to pursue an undergraduate major within an existing department. Any student wishing to enter law school is strongly urged to consult catalogues of schools to which he/she will apply in order to learn their specific academic requirements as a means of helping him/her to plan his/her program at Towson wisely.

A Pre-Law Council comprised of students planning to pursue a career in law meets regularly at Towson, providing an opportunity for students sharing a common interest to discuss their needs and objectives as pre-law students and offering current information about conditions for admission to law school and about other matters related to careers in law. Every pre-law student is encouraged to join this council.

## Science and Technology

Our highly technological society demands an increasing number of highly trained technical personnel in such diverse fields as business and industry, medicine, local and state government, and public services. Towson is responding to these new demands making available to students the widest possible variety of programs, interdisciplinary as well as traditional content area. For example, students interested in careers in environmental planning may wish to combine work in the physical sciences with courses in geography, mathematics, economics, political science, and psychology. Students whose primary interest is in ecology, air and water pollution control, or conservation of natural resources, for example, may wish to combine their work in geography and environmental planning with courses in biology and chemistry. Those with primary interest in materials transport or model systems building may emphasize work in mathematics and physics in addition to their courses in environmental planning.

Students interested in careers in mathematics or statistics in government or business may major in mathematics and elect other courses from areas such as computer science, the social sciences, or the physical sciences according to their interests and plans. Students wishing to enter actuarial work, for example, would elect additional courses in economics, business administration, accounting, and business law. Students planning to work as mathematicians or statisticians in government or business would emphasize work in computer science and economics.

## Engineering Dual Degree Program with the University of Maryland

A cooperative program with the University of Maryland College of Engineering is available to students wishing to earn a baccalaureate degree in engineering. In this program, the student completes his/her junior year (90 credits) at Towson State and then transfers to the University of Maryland College of Engineering for approximately two additional years (60 credits). In order to be eligible for transfer into this program, the student must have included in his/her work at Towson all the General College requirements in addition to the following courses: Chemistry 1905.101, 102, (1905.331-332 for Chemical Engineers); Mathematics 1701.273, 274, 373, 471; Computer Science 0701.235; and Physics 1902.221, 222, 301, 302 or 305. In his/her course work at Towson, the student must maintain a G.P.A. of at least 2.0.

After completing the academic requirements of Towson State College, usually by the end of the first year at the University of Maryland, the student will be awarded a bachelor's degree from Towson. After completing requirements in the College of Engineering, he/she will obtain the baccalaureate engineering degree related to his/her area of specialization.

A detailed description of this program listing all requirements can be obtained from the Associate Dean for the Sciences. Students interested in this program are urged to discuss their plans with their departmental advisor as early in their college career as possible. Careful attention to course requirements is necessary in order for the student to complete the program in five years.

## Communications

The presentation and interpretation of thoughts and ideas through writing, speaking, and pictures is of interest to many students. Students at Towson who wish to pursue a career in radio, television, journalism, film, and public

relations may wish to select a program in Mass Communications designed to help them develop skills in fact-finding, analysis, and communication through the mass media. In addition to specific courses in journalism, speech, film, advertising, and the media, students in the Mass Communications program are strongly urged to acquire a broad background in the humanities, the fine arts, and the social sciences.

Students interested in pursuing a career as a technical writer, technical editor, or as a writer for a house organ in business or industry should take courses in business administration, English, Mass Communications, psychology, and science in order to acquire the technical, writing, and human relations skills necessary to prepare for such careers.

## Health Services

Programs offering preparation for a variety of careers in the health services are available to students at Towson. The Department of Nursing offers a baccalaureate program for students wishing to pursue a career as a professional nurse. Students completing a major in nursing receive the Bachelor of Science degree and are eligible to take the examination offered by the Maryland State Board of Examiners of Nurses for licensure as a registered nurse. The four-year program provides for completion of the general education requirements of the college, foundation courses in the physical, biological and social sciences, and coursework in Nursing, which is completed primarily in the junior and senior years.

Several programs are available within the Department of Health Sciences preparing students for a variety of careers in the area of health services. Students interested in the administration of school and community health programs, for example, may elect a specialization in School Health or Community Health, which includes courses in biology, business, chemistry, mathematics, and psychology. Students wishing to pursue a career as a medical technologist may select the major in Medical Technology, which provides background sufficient to pass the Registry Examination administered by the Board of Registry of the American Society of Clinical Pathologists. Students interested in occupational therapy as a career may elect a program in occupational therapy, another option within the Department of Health Science. The major in Occupational Therapy leads to the Bachelor of Science degree and sufficient preparation to pass the certification examination to become a registered occupational therapist.

The program in Speech Pathology and Audiology offered by the Department of Communication Arts and Sciences prepares students to do clinical work in this field in public schools, in colleges, and in medical and paramedical institutions. The student who completes a major in Speech Pathology and Audiology receives the Bachelor of Science degree and partially meets certification requirements for the American Speech and Hearing Association.

Students wishing to enter medical or dental school following graduation are urged to check the catalogues of schools to which they will seek admission in order to determine specific course requirements. In general, a major in biology, including two years of chemistry, will provide adequate preparation for students to meet the general admission requirements.

Students wishing to pursue a career in pharmacy may, with careful planning, be able to gain admission to a pharmacy school upon completion of a total of sixty (60) semester hours of credit at Towson. In order to enter

pharmacy school in the junior year of college, the student must complete sufficient course work in mathematics, biology, physics and chemistry.

### **Social Services**

Students interested in pursuing careers in the social services such as social work, psychology, employment or career counseling, and recreation directors should acquire a sound background in the liberal arts, stressing the humanities and the social sciences. Particular emphasis should be given to work in psychology and sociology and to the improvement of skills in oral and written communication.

### **Pass/Fail Option**

Students planning to continue their academic programs at professional or graduate schools should be selective in pursuing courses on the Pass/Fail option. This warning is based on the fact the professional and graduate schools view Pass/Fail courses as being less acceptable for determining admission to their programs. A student planning to attend graduate school should contact that institution to determine their attitude toward the pass/fail option in the admission process.

## **THE TEACHER EDUCATION PROGRAM**

Towson has been preparing teachers for the public schools of Maryland for more than one hundred years. Out of this long experience have come the present three programs for teachers, directed toward three levels: early childhood education (preschool through the third grade), elementary (first through sixth grades), and secondary (seventh through twelfth grades). Recently a program has been developed to prepare teachers for middle schools.

Professional education courses, comprising about twenty percent of the four years' work, consist of approximately two-thirds classwork at the College and one-third laboratory experiences, including student teaching in the classrooms of public school systems. Prior experience with children is strongly recommended for those seeking admission to student teaching.

Approximately forty percent of the college program is given over to studies of a general nature—in the humanities, the social sciences, and the natural sciences—providing a well-rounded college education. Certain basic courses are required, assuring foundations in all broad areas of knowledge; but even among these there are frequent choices, and beyond them is the opportunity for electives that make possible the pursuit of special interests.

The balance of the four years' work, approximately forty percent, is given over to electives which permit the student to develop competency in the field in which he/she will eventually teach or to pursue his/her special interests.

In general students with a minimum of a 2.0 cumulative average are eligible to enter student teaching when (a) they have completed the required freshman and sophomore courses; and (b) they have completed all professional prerequisites. They must in addition have the approval of the Director of Laboratory Experiences to enter and remain in the student teaching program.

The teacher education program may lead directly to positions such as: nursery and kindergarten teaching, primary grade teaching, upper elementary teaching, middle school teaching, junior and senior high school teaching, college teaching, special educational teaching, guidance work in schools, and librarianships in schools and public libraries.

With experience and additional training, graduates of the teacher education program may become administrators such as supervisors, principals, and superintendents.

Other vocations and areas of work in which teacher education graduates enter include: social work, religious education (including the ministry of education and the ministry of music), personnel work, recreation work, educational TV, audio-visual education in the schools and in business and industry; industrial education, programmed instruction in business and industry as well as in the schools, the field of testing in education and in business and industry, and educational positions in governmental agencies.

Required courses for each area and suggested course sequences are listed under each area in the Education Department course descriptions.

### **Teaching Certificates**

Each graduate of a teacher education program at Towson will be qualified for Maryland certification at the early childhood education, elementary, or high school level. Early childhood education graduates may teach nursery school, kindergarten, and grades one, two, and three. Elementary education graduates may teach grades one through six and they may teach an academic subject in grades seven, eight, or nine, provided they meet the content requirements for a secondary school certificate in this subject. Secondary school graduates may teach in grades seven through twelve, and grades six when departmentalized. The Standard Professional Certificate is issued for three years at graduation and is renewable for seven years upon completion of six semester hours of graduate or advanced undergraduate courses. Because the Education Division of Towson State College has received NCATE Accreditation and approval by the Maryland State Department of Education, Towson graduates are qualified for certification in thirty-three states throughout the country.

The Towson graduate program affords opportunity to qualify for the Advanced Professional Certificate. Thereafter a master's degree or "equivalent" is required for the Advanced Professional Certificate. Certification to teach in Baltimore City is based in part upon the passing of a professional examination.

### **General College Requirements for Bachelor's Degrees**

All degree programs of the College are based upon a fundamental background of general studies. Work in four area disciplines of liberal arts or general education courses are required of all students working toward the Bachelor of Science or Bachelor of Arts degrees. Additional courses in general education are required of prospective early childhood and elementary school teachers; but it is possible, and sometimes desirable, to pursue a major in an academic field. Students pursuing a program in secondary education are required to complete a major in addition to required education courses.

### **Specialization**

A major in an academic field is earned by completing about eight courses, generally, beyond the basic required courses in the chosen field—or about 36 credit hours of work, the exact amount being set by the various departments. Three possible benefits make the pursuit of a major course of study desirable: it prepares the student for graduate study in the field; it prevents a possible too-wide dispersion of effort which would result in a lack of real competency in any branch of knowledge; it qualifies the

graduate from the teacher education program to teach the subject in junior and senior high schools.

Students may select a major or approved department program from one of the following fields; art, business administration, biology, chemistry, economics, elementary education, elementary school science, English, geography, history, high school science, early childhood education, mathematics, modern foreign languages, music education, physical education, physics, political science, psychology, philosophy, sociology, social science, speech and dramatics, speech education. The required courses for programs are listed with department course descriptions.

## FOREIGN STUDY

Students with upperclass standing desiring to pursue study in a specialized academic area at a college or university outside the United States must make application and obtain College approval for the study program. The appropriate form for making application may be obtained at the Registrar's Office. Approval is gained through the department chairman of the academic area involved, who will assist the student in the selection of a program satisfactory to the department. For final approval, the department chairman will forward the proposed program to the Academic Standards Committee through the office of the Dean of the College. After the student has returned to the College, transfer credit for a program of study undertaken outside the United States will be granted only upon recommendation of the department chairman and after an evaluation has determined the student's successful completion of the program.

## THE COOPERATIVE EDUCATION PROGRAM

The Cooperative Education Program at Towson State College is designed to foster an interchange of students between Towson State and the other State Colleges of Maryland as well as other institutions of higher learning in the Baltimore Metropolitan area. The institutions included in the program are the State Colleges at Bowie, Coppin, Frostburg, Morgan, Salisbury, University of Baltimore, and the University of Maryland, Baltimore County; and the private colleges Goucher, Loyola, College of Notre Dame, and Johns Hopkins. The program is also designed to allow students to take courses not ordinarily available at Towson as well as study under eminent professors in residence at other institutions. Students are encouraged to develop their academic curriculum with the Cooperative Education Program as an important part of their plans.

There are no additional costs to the student to participate in the Cooperative Program.

Students desiring information concerning the Cooperative Education Program should consult with the Coordinator of the Cooperative Education Program. Cooperative Education Program applications, participating college bulletins and class schedules are available from the Coordinator, the Associate Registrar.

## Academic Requirements

Students participating in the program are expected to

maintain the same degree of proficiency in their academic studies at the cooperative institution as at Towson State.

Courses taken at the cooperative institutions are part of the student's academic record, and grades will be computed into the student's grade point average at Towson.

Only full-time day students who are in good standing academically in an undergraduate or graduate degree program are eligible to participate in the Cooperative Education Program.

## National Student Exchange

This program allows students an opportunity to become acquainted with social and educational patterns in other areas of the United States. Through Towson's membership in the NSE, students may attend one of the 16 participating schools for a semester or a full year. For further information, contact the Associate Registrar.

## VETERANS' AFFAIRS

Towson State College's Office of Veterans' Affairs is concerned with all veterans and their dependents in attendance. Its major aim is to assist all veterans in making a smooth readjustment to civilian life, especially in the area of education.

The office provides professional assistance and counseling to veterans concerning personal, family, educational, military discharges and career problems. In addition, the office certifies veterans' and dependents' attendance so that they may receive educational benefits from the Veterans Administration.

## JANUARY SESSION

Beginning in January, 1972, Towson offered its first Mini-semester or January Session.

Courses may be of the traditional lecture or discussion type, or they may be entirely new and experimental. They may be a combination of old and new. Courses hopefully will cover a narrower, more topical range of subject matter than most courses offered during the regular semester. Independent study, directed readings, travel study, practicums, and other courses that could lend themselves to a concentrated, full-time effort by a student would be appropriate for a Mini-Term.

Credits for the Minimester will be equivalent to credits earned during the regular semester. Each student is limited to one course during the Mini-Term, carrying a load of from one to three credits. This restriction is intended to preserve the Mini's main feature: The opportunity to concentrate on one educational theme without the competition of other courses or other teaching responsibilities.

Special students and part-time degree candidates may be admitted to the January session, however, the General College fee will be assessed for these students.

Fees will be assessed on a per-credit basis plus a registration fee payable at the time the student registers for a course.

Faculty and students who choose not to participate in the January session would have the period covered by the Minimester free—for research, study, travel or work.

# Graduate Studies

Wilfred B. Hathaway, Dean and Director of Graduate Studies  
Frederick C. Arnold, Associate Director of Graduate Studies  
Clifford D. Alper, Coordinator, Music Education Program  
Grayson S. Burrier, Coordinator, Secondary Education Program  
Wayne L. McKim, Coordinator, Geography Program  
Richard J. Williams, Coordinator,  
Elementary Education Program  
Joseph P. Culkoska, Coordinator, Reading Program  
Dell C. Kjer, Coordinator, Early Childhood Education Program  
Fredericka Kundig, Coordinator, Biology Program  
Charles Lonegan, Jr., Coordinator, Speech Pathology and  
Audiology Program  
Stuart Miller, Coordinator, General Psychology  
John B. Mitchell, Coordinator, Art Education Program  
Anthony DiCesare, Coordinator, Counseling  
Barbara Slater, Coordinator, Clinical Psychology,  
School Psychology  
Gary Rosecrans, Coordinator,  
Audiovisual Communications Program

## PROGRAMS AND PURPOSES

The Master of Arts degree programs in Geography and Psychology, and the Master of Science degree programs in Audiovisual Communications, Biology, and Speech Pathology and Audiology are intended to develop further specific knowledge in the respective fields. It is the intent of these programs to enable students to meet their needs through the flexibility within each program. The Master of Arts degree program in General Studies is intended for the student wishing an interdisciplinary degree and is designed to meet individual needs.

The programs leading to the Master of Education degree have been developed primarily to help teachers increase their competency in the following general areas:

Art Education	Music Education
Early Childhood Education	Reading
Elementary Education	Secondary Education

## GENERAL ADMISSIONS POLICY

Admission to the Graduate Division at Towson State College is granted to all applicants whose academic and personal qualifications give promise of success in graduate study. The Board of Trustees of the State Colleges has established the requirement that admission to the State Colleges shall be determined without regard to race, color, religion, or sex.

All students seeking admission to a graduate degree program must file an "Application for Admission to Graduate Studies" prior to first enrollment and have official transcripts of all college work sent to the Graduate Division. Transcripts must be sent directly from the institutions attended to the Graduate Office at Towson State College. Programs have the option of requiring additional admissions devices (including letters of recommendation, the Graduate Record Examination Aptitude and/or Advanced Tests and the Miller Analogies). Students should consult the Graduate School Office for information concerning specific programs.

## ADMISSION TO COURSES FOR GRADUATE CREDIT

An applicant for admission to courses for graduate credit (classification: Graduate Student) must meet admission requirements in one of two ways: 1) By holding a Master's

or Doctor's degree from a regionally accredited college or university, 2) By holding a Bachelor's degree from a regionally accredited college or university, with a grade average of 3.00 ("B") and satisfactory attainment on all admissions devices required by the program. At the option of the coordinator and the Department Graduate Committee, the grade average requirement may be satisfied by a 3.00 cumulative average, by a 3.00 average in the most recent 60 credits on the undergraduate academic record, or by a 3.00 average in the courses making up the undergraduate major and minor if the student plans to continue his/her studies in these same fields. The quality of graduate work taken beyond the Bachelor's degree, either as post-baccalaureate (non-graduate credit) courses or graduate credit courses, will be evaluated as part of the undergraduate record.

All required application credentials (see General Admissions Policy) must be filed with the Dean of Graduate Studies no later than July 15 for the Fall Semester, November 15 for the Spring Semester, or March 15 for the Summer Session to be considered for admission. Those who are admitted as Graduate Students may register for courses numbered 100-699, but will receive graduate credit only in graduate level courses numbered 300-699 completed with grades of "C" or better. Some 300-level and 400-level courses do not carry graduate credit and are not listed in the Graduate Bulletin. In order to maintain the classification of Graduate Student, a good academic record must be achieved even if the student is not in a degree program.

## CONDITIONAL ADMISSION

Conditional Admission may be granted to those students whose academic achievement falls short of the standards required for Graduate Student standing if one of the following requirements is met:

1. Academic average in collegiate work — at least 2.30 in one or more of the areas of the student's record listed above in "Admission to Courses for Graduate Credit."
2. Academic average in collegiate work — at least 2.00 in one or more of the areas of the student's record listed above in "Admission to Courses for Graduate Credit" — and a score of 1000 or higher on the Aptitude portion of the Graduate Record Examination.

The student granted Conditional Admission must complete two specified courses with the grade of "B" or better in each course. The courses must be completed within one year of admission and may be used towards the degree when applicable. In programs where Conditional Admission courses are to be selected from assigned alternatives the first two courses attempted will constitute the Conditional Admission program.

Students admitted conditionally are enrolled as Non-Graduate Students.

## GRADUATE WORK BY SENIORS AT TOWSON STATE COLLEGE

Students in their last semester of work at Towson State College may register for a maximum of six credit hours in the Graduate School if they meet the following requirements: 1) The graduate courses must be in excess of the credits required for the Bachelor's degree, 2) A letter sent from the student to the Dean of Graduate Studies request-

ing Graduate Student classification (which requires a 3.00 average), submitted in advance for specific graduate courses [by July 15 for the Fall Semester, November 15 for the Spring Semester, and March 15 for the Summer Session] must be approved. 3) All required application credentials must be submitted (see General Admissions Policy) and the student must be granted Graduate Student Standing prior to receipt of graduate credit for satisfactory completion of the courses, and prior to initiation of further course work.

## NON-DEGREE STUDENTS

Students who do not meet the standards required for classification as Graduate Student are permitted to register with the classification of Non-Graduate Student and pursue non-degree programs. Those students receiving Non-Graduate standing are eligible to take courses at the 100-level through the 400-level, but receive graduate credit only in courses numbered 300-499 and listed in the current bulletin as "Undergraduate and Graduate."

Non-Graduate Students pursuing non-degree programs at the post-baccalaureate level, however, must file the appropriate application.

Students who believe they can meet the admission requirements for Graduate Student standing but who fail to file the required application credentials in advance must register as Non-Graduate for the semester. However, they will be considered for admission to Graduate Student standing if their application credentials are received by the college before the end of the first quarter of the semester. If they are admitted to Graduate Student standing they will then be permitted to receive degree credit for satisfactory completion of any 300-level and 400-level graduate courses provided the courses are applicable to the degree program.

## CANDIDATES FOR DEGREES AT OTHER INSTITUTIONS

Students who are candidates for an advanced degree at present, at least two weeks before registration, a letter Student at this college for occasional work. They must another college or university may enroll as a Graduate from the Graduate Dean of their parent institution indicating that they are in good standing and that credit earned at Towson State College is acceptable towards their degree.

## ADMISSION PRIOR TO RECEIVING BACCALAUREATE DEGREE

Admission may be granted to seniors in their last semester of work and whose required application credentials are incomplete because the baccalaureate degree has not yet been conferred. Evaluation will be made on the basis of their undergraduate work through the first semester of the senior year. Standing granted in the pre-degree category is made at the option of the Graduate Program Coordinator to enable the student to begin work in courses carrying graduate credit immediately upon completion of the senior year. The applicants must have all application credentials completed during the first month after classes begin in the semester they initiate their course work. Admission standing is subject to cancellation or change if the admission credentials remain incomplete or do not meet the requirements for admission. If admission as a Graduate Student is denied, the student will be required to

withdraw from any 500-level or 600-level courses for which he/she has registered. Continuation of students in courses below the 500-level will be permitted.

## FOREIGN APPLICANTS

Admission should be sought at least six months prior to the date of anticipated enrollment. All required admission credentials must be received in the Graduate Office prior to evaluation for admission.

Credentials required are:

1. An Application for Admission to Graduate Studies
2. Official or certified true copies of all grade reports, diplomas, and academic records attesting to the completion of undergraduate work
3. A letter from the student stating plans for attending, and reasons for selecting, Towson State College
4. A financial summary stating amount and sources of support for the proposed duration of study
5. Acceptable scores on the Test of English as a Foreign Language (TOEFL). Information about the TOEFL may be obtained from TOEFL, Educational Testing Service, Princeton, New Jersey 08540

## GRADING SYSTEM

A four-point system is used to identify quality of academic work. The letter "A" designates work of superior quality; "B" work of good quality; "C" work of satisfactory quality; "D" work of less than satisfactory quality and not allowable for degree credit; "F" work of such unsatisfactory quality that no credit is given.

Post-baccalaureate students may not elect to take any course offered as available for "graduate" credit under the Pass Option policy.

The grades of "S" satisfactory or "U" unsatisfactory are utilized only for the "Thesis" course of graduate programs. The grade of "S" is equivalent to a grade of "C" or higher. A grade of "FX" is assigned when a student registers for a course and does not attend or neglects to withdraw officially from the course or from the College by the last published date to drop a course.

A mark of "I" (incomplete because of illness or other reason beyond control of student) at the end of a semester, carries no credit. Unless such a course is satisfactorily completed within six months of the last day of class for the course, the grade for the course becomes "F." It is the responsibility of the student to make arrangements for removal of the "I." Grades of "I," "S," and "U" are not used in computation of averages.

In computation of grade point averages, the following quality point values are used:

A — 4 quality points	D — 1 quality point
B — 3 quality points	F — 0 quality point
C — 2 quality points	FX — 0 quality point

Students may repeat a course only once where credit has been earned or a mark of "F" or "FX" has been awarded. When the course is repeated, the student will receive the credits for the course counted once and the higher of the two grades if repeated for the first time after September 1, 1970. Students repeating courses must indicate this at the time of registration. Upon completion of the repeated course a change of grade form must be submitted to the Registrar by the student concerned. The lower of the marks earned is not maintained on the student's permanent record.



## REQUIREMENTS FOR THE MASTER'S DEGREE

1. Satisfactory completion of all undergraduate requirements listed as prerequisites for the degree.
2. The filing of a Program of Study with the Dean of Graduate Studies.
3. Advancement to Degree Candidacy.
4. A 3.00 average in all graduate work at this college.
5. Satisfactory completion of the Comprehensive Examination if required by the program in which the degree is earned.
6. Satisfactory completion of the Thesis and oral examination if the Thesis Option is selected.
7. The filing of the Diploma Card in the Graduate Division.

## TIME LIMITATION

All requirements for the Master's degree are to be completed within a seven-year period. The scheduled time is determined from the date of the first course in the degree program at this college, or the date of any course allowed as transfer credits, whichever is earlier.

## CONTINUOUS ENROLLMENT

Each student is expected to register for courses on a regular basis. Should there be a lapse of two academic years without courses being taken, the student's records will be inactivated. Once a student has become "Inactive," it is necessary to be reactivated under current policies.

## PROGRAM OF STUDY

A Program of Study should be planned within the semester that the student is granted Graduate Student standing. The Program is to be completed in consultation with an adviser and must be drawn up on forms provided by the appropriate graduate coordinator. Revision of the Program of Study may be accomplished only with the adviser's approval. The Program must be planned prior to Advancement to Degree Candidacy. Any courses taken prior to the planning of the Program of Study are subject to the approval of the appropriate graduate coordinator.

## ADVANCEMENT TO DEGREE CANDIDACY

All students in programs leading to the Master's degree must attain Advancement to Degree Candidacy. An application for Advancement to Degree Candidacy may be made by Graduate Students after nine hours of graduate courses have been completed. The following requirements govern eligibility for Advancement to Degree Candidacy:

1. Six credits in 500-level and 600-level courses.
2. A 3.00 average in all graduate work at this college.
3. Successful completion of the Advancement to Degree Candidacy Examination.
4. The filing of a Program of Study with the Dean of Graduate Studies.
5. Completion of all undergraduate requirements.

All students are urged to meet the requirements of and to make application for Advancement to Degree Candidacy within the nine to fifteen hour framework. Advancement to Degree Candidacy must be attained at least one semester prior to the semester in which the student desires graduation.

## ADVANCEMENT TO DEGREE CANDIDACY EXAMINATION

Each student must successfully pass a written examination prior to Advancement to Degree Candidacy. In certain programs the examination may also include an oral portion to be administered subsequent to passing the written part. Application for the examination must be made prior to the date established as the deadline for applying as stated in the Graduate Studies Bulletin. Should the student not take the examination or have to repeat it, the application must again be submitted during the semester in which the examination is desired.

In the program leading to the Master's degree in Biology, the examination requirement may be satisfied by completing 14.581, "Recent Advances in Biology," with the grade of "B" or higher. The programs in Early Childhood Education, Elementary Education, and Secondary Education allow satisfaction of the examination requirement by completing 29.501, "Educational Ideas in Historical Perspective" with the grade of "B" or higher. The written Advancement to Degree Candidacy Examination is required in all cases where the grade of "A" or "B" is not attained when the course is first taken.

In the program leading to the Master's degree in General Studies, the examination requirement may be satisfied by completing 33.501, "The Introductory Seminar in General Studies," with the grade of "B" or higher. The student who receives less than a "B" grade is required to remedy major deficiencies revealed by the course. Remediation may be in the form of additional course work, including Independent Study. When the student satisfactorily fulfills the requirements of the remediation plan, the requirements for Advancement are considered completed.

## COMPREHENSIVE EXAMINATION

It is the option of each program to administer a final comprehensive examination. The final comprehensive examination may not be taken earlier than the term during which he will complete his course work. The examination may be repeated only once. Application for the examination must be made prior to the date established as the deadline for applying as stated in the Graduate Studies Bulletin. Should the student not take the examination or have to repeat it, it is necessary that an application again be submitted during the semester in which the examination is desired.

## ACADEMIC PROBATION

In order to remain in good standing, candidates for the Master's degree must maintain a 3.00 average. If the cumulative average falls below 3.00, the student will be placed on probation. If after completing nine more hours of work, his cumulative average remains below 3.00, he will be dropped from candidacy; otherwise, he will be restored to good standing.

A student on probation will not be permitted to take the written Advancement to Degree Candidacy Examination or the Comprehensive Examination leading to any degree. Required courses in which the candidate earns a grade of "D" must be repeated since the grade does not confer graduate credit.

## WORKSHOP AND INDEPENDENT STUDY LIMITATIONS

In all degree programs, a limit of twelve semester hours total is placed on workshops, independent study, travel

and study, and directed reading. No more than six semester hours may be taken in any single area.

## **COURSE LOAD**

A student who registers for nine graduate credit hours is considered full time. One who takes fewer hours is designated a part-time student. The maximum load for full-time students is twelve credit hours.

## **THESIS PROCEDURE**

Students intending to write a thesis in partial fulfillment of the requirements for the degree should obtain the brochure "Thesis Procedure" from the Graduate Office. The following steps must be completed prior to approval of registration for the appropriate Thesis course:

1. The student declares in writing to the Dean of Graduate Studies his intent to complete the Thesis requirement.
2. The student meets with the Graduate Coordinator to select a Research Adviser.
3. A Thesis topic is agreed upon.
4. The student discusses suggested members of the Thesis Committee with the Graduate Coordinator and the Research Adviser.
5. When the Committee is agreed upon, the student obtains all appropriate signatures on the Thesis Committee Appointment and Approval Form.
6. The student prepares a Thesis Outline and submits copies to all members of the Thesis Committee.
7. The student and his advisor schedule a meeting of the full Committee and the student orally presents and defends his Outline.
8. The accepted Outline is filed with the office of the Dean of Graduate Studies.
9. The student begins his research.
10. At the next registration for courses, the student must register for the appropriate Thesis course.

## **TRANSFER CREDIT**

The following regulations govern the transfer of credits from other regionally accredited colleges:

1. A maximum of twelve transfer credits may be allowed for graduate work satisfactorily completed at the following institutions: Bowie State College, Coppin State College, Frostburg State College, Salisbury State College, Morgan State University, and the University of Baltimore.
2. A maximum of six transfer credits may be allowed for graduate work satisfactorily completed at accredited institutions other than those listed in one above.
3. A maximum of twelve credits may be allowed for work successfully completed in the formal educational ex-

periences sponsored by State and local Boards of Education. See "Credit For In-Service Experiences."

4. The total accumulation of transfer credits listed in one, two, and three, above may not exceed twelve.
5. Application for transfer of courses taken prior to admission may be made after the student attains "Graduate Student" standing.
6. Transfer credit after a student has been admitted to the Graduate School at Towson State College may be permitted if the student applies in writing to the Dean of Graduate Studies for permission prior to taking a course. Approval may be granted if the course is approved for the student's program and if the course is not offered by Towson State College during the period of the student's attendance. Required courses in a program must be completed at Towson State College.
7. All transfer credits must be completed with a grade of "B" or higher and must remain within the total span of seven years allowed for completion of degree requirements.
8. Transfer credits will not be used in computing the academic average. The courses will appear on the Towson State College transcript with the title and credits earned, and without grades earned.

## **CREDIT FOR IN-SERVICE EXPERIENCES**

A student applying for a graduate degree program in Early Childhood Education, Elementary Education, Secondary Education, or Reading may request degree credit for formal educational experiences taken beyond the baccalaureate degree if such experiences were sponsored by State and local Boards of Education in Maryland. Application for evaluation of experiences must be made by the student to the Dean of Graduate Studies. The application must be accompanied by a portfolio of documentary evidence that attests to the quality of the experience for which credit is sought. Procedures pertaining to the evaluative process, as well as guidelines to assist the student in the preparation of the course portfolio may be secured from the Office of the Dean of Graduate Studies. A non-refundable \$10 fee will be assessed the student for the evaluation of each course. An additional fee will be charged for each credit accepted.

## **APPLICATION FOR GRADUATION**

Each student must make application for graduation by submitting the Graduate Division Diploma Card and paying the appropriate graduation fee. The diploma card must be submitted by the published deadline date in the Evening Fall 1976 Academic Calendar at the back of this catalog. Students submitting the Diploma Card late must delay graduation for one semester.

Should the student not graduate at the indicated time, the Diploma Card must again be submitted during the semester in which graduation is desired. The graduation fee will be required with the first submission of the Diploma Card, but not with subsequent submissions.





# Course Descriptions

## The Meaning of Course Numbers

Each department of the College has one or more code numbers and abbreviations for each general subject area (e.g., French in the Modern Language Department). The code abbreviations are shown in parentheses at the head of the course listings. The code numbers form a four digit Subject Classification Number, which precedes a three digit Course Classification Number, forming a seven digit Course Number. Each course has a distinctive number, with the following significance:

Course Classification Numbers	Significance of Numbers
.001-.009*	Two Year Experimental Courses.
.010-.099	Special Courses with and without credit and Physical Education Lab skill courses with credit.
.101-.299	Lower Division Undergraduate Courses.
.301-.499	Upper Division Undergraduate and Graduate Courses, as noted.
.501-.699	Graduate Division Courses.

## Sequential Courses

Semesters of a year course whose numbers are separated by a hyphen are to be taken in sequence. When course numbers are separated by a comma, either semester may be taken independently of the other. (See Prerequisites.)

## Elective Courses

Students majoring in the various areas will need to choose their electives with extreme care. Before registering for courses which are not required students should consult their advisers. The advice of the instructor of the course or the chairperson of the department in which the elective course is listed may be needed before a wise decision is made concerning the choice of an elective.

## Credit Value of Courses

The semester credit value of the course is indicated in the parentheses following the title.

## Time of Offering

All required courses are usually offered each semester. Elective courses in each department are usually offered at least one semester each year. All non-required courses are offered subject to sufficient enrollment.

## Prerequisites

The order in which courses should be taken is determined by the prerequisites for all courses to be taken. (See Sequential Courses.)

\* After June, 1974, this numerical sequence will apply only to non-credit courses and courses offered in the January session.



# Art

*Professors:* MILLER, MITCHELL (Coordinator of Graduate Studies), POLLACK, ZINDLER.

*Associate Professors:* CUBBISON, FIX, FLOOD, GUILLAUME, MONTENEGRO, NASS, SUPENSKY (Chairperson).

*Assistant Professors:* COHEN, DAVIS, GILCHRIEST, JACOBSON, LADD, OUNDJIAN, PAULSEN, ROBB.

*Instructors:* BARLETT, DENNER, PITMAN, PULLEN.

*Assistant Instructors:* LEE (Curator of Collections), COBERLY (Slide Librarian).

Education in the visual and plastic arts provides insight into the physical and subjective environment of individuals and cultures. Personal participation in the arts develops perceptual and expressive abilities. An undergraduate major in Studio Arts and both undergraduate and graduate majors in Art Education are offered.

## Art Major

All prospective art majors and minors must register with the Art Department as early as possible during the first year on campus. The purposes of a major in art are to provide a background for personal creativity, to prepare for graduate work, and to provide a foundation for a career in art. Required courses are: 1001.103, 1001.104, 1001.111, 1001.121, 1001.122, 1001.201, 1001.229, 1001.230, 1001.231, 1001.240 or 1001.241 and a course in Graphic Processes.

In addition, art courses are required to reach the minimum total of 45 credits. Transfer students must take half the total required art credits with this department. The department reserves the privilege of retaining student work, including rights of reproduction and publication.

## Art Education Major

The department offers dual teaching certification only (Elementary and Secondary Level). All courses and statements for the art major apply also to the art education major. These plus 1001.225, 1001.234, 0831.375, 0831.475, 0831.479, Educ. 0803.319, Psychology 2001.201 (203) must precede student teaching. Proseminar 0831.455 is taken concurrently with student teaching (0802.497-0803.398). Students may register for "Methods" (0831.475-0831.479) and student teaching only if at least half the studio-art history requirements were taken in this department. Education 0801.401 is also required for certification.

## Art Minor

Students who wish a minor in art should select the following courses: 1001.103 1001.104, 1001.111, 1001.121 or 1001.122, 1001.229 or 1001.230, 1001.240 or 1001.241, plus additional art electives to total at least 24 credits.

## The Arts and Sciences Program

For general information please refer to the Arts and Sciences program in this catalog. Students who wish to select art as their "core" of concentration must take the following courses: 1001.103, 1001.104, 1001.105, 1001.111, 1001.121 or 1001.122. Students in this program must register with the Art Department.

History of Art Concentration — Students wishing to select the History of Art Concentration leading toward a BA degree should refer to the requirements stated in the Arts and Sciences Program in this catalog.

## Art Honors Programs

The art department grants honors in Art Education, Art History, and Studio Arts. Admission is granted at the end

of the sophomore or beginning of the junior year to students who have the following qualifications: overall cumulative average of 3.25, major average of 3.25, recommendation of advisor to Departmental Honors Coordinator. The minimum requirements for graduation with honors in art are overall cumulative average of 3.25 and 3.50 in major field and completion of the honors program of study.

## ART COURSES

[ART = 1001; ART EDUCATION = 0831]

### Lower Division—Undergraduate

1001.102 (12.102) FUNDAMENTALS OF DESIGN FOR NON-ART MAJORS (3) Elements and principles of design and aspects of their application. (Not for major credit)

1001.103 (12.103) TWO DIMENSIONAL DESIGN (3) Elements and principles of two dimensional design and aspects of their application. Studio & discussion.

1001.104 (12.104) THREE DIMENSIONAL DESIGN (3) An introduction to three dimensional concepts as they relate to the elements and principles of design. Form and space problems involving various materials, tools and techniques. Prerequisite: 1001.103.

1001.105 (12.105) ART IN THE CULTURE (3) A study of art and its relation to man's culture, historically as well as a strong emphasis on contemporary western culture. Slide lectures to include a broad media of art forms, readings and museum visits. (Does not count for major credit)

1001.106 (12.106) DRAWING AND PAINTING FOR NON-ART MAJORS (3) An introductory course for non-art majors. Studio experience in drawing and painting. Critiques and museum visits.

1001.107 (12.107) CERAMICS FOR NON-ART MAJORS (3) An introduction to the creative possibilities inherent in clay. Studio work in handbuilding and the potter's wheel.

1001.108 (12.108) STREET ART (3) Investigation of public (vs. museum or elitist) art from mid-eighteenth century to current times. Philosophy behind propaganda and aesthetics of various political systems will be included. Meets general education requirements.

1001.109 (12.109) BLACK ART HISTORY (3) A study of Black American artists and their work as an aspect to American Art. Lecture, discussion, slides, museum and gallery visits.

1001.111 (12.111) DRAWING AND THE APPRECIATION OF DRAWING I (3) Problems of expressive draftsmanship in a variety of media. Drawing from the costumed and nude figures, still life and landscape.

1001.121 (12.121) PREHISTORIC TO MEDIEVAL ART (3) An historical survey of art. Slide lectures, directed readings and museum trips.

1001.122 (12.122) RENAISSANCE TO CONTEMPORARY ART (3) An historical survey of art. Slide lectures, directed readings and museum trips. Prerequisite: 1001.121 or equivalent.

1001.131 (12.131) THE ART OF CHINA (3) The art of China and peripheral regions as expressed in painting, sculpture, architecture, porcelain, and the ritual bronzes. The influence of India is studied in connection with the spread of Buddhism along the trade routes of Central Asia. Slide lectures, directed readings, museum trips and demonstration of ink painting.

1001.132 (12.132) THE ART OF JAPAN (3) A survey of the development of Buddhist art and architecture in Japan as

they were introduced from China, including the arts of later periods, with special emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens and woodblock prints.

1001.201 (12.201) COLOR (3) Fundamentals of color including work in the basic areas of hue, value, intensity and color mixing, as well as projects in color interaction, illusion, complements, after image, additive and subtractive color and types of color contrast. The student should gain some knowledge of color systems, experience in subjective color use, and discover the specific structural and emotional qualities that color can create. Prerequisite: 1001.102 or 1001.103 or consent of instructor.

1001.202 (12.202) ADVANCED DESIGN (3) The application of aesthetic principles to graphic and plastic problems. Emphasis on independent investigation. Prerequisites: 1001.103, 1001.104.

1001.205 (12.205) THE ART OF PUPPETRY AND MARIONETTE PRODUCTION (3) Design and construction of puppets and marionettes; adapting plays, stories, and events; designing and constructing scenery; lighting; production.

1001.206 (12.206) ARCHITECTURAL CONCEPTS (2) The organization of space and materials for human needs. Contemporary and historical aspects of the design of private and public buildings and of communities. Lectures and Discussion.

1001.211 (12.211) DRAWING II (3) Continued studio work in drawing; landscape, still life and figure. Prerequisite: 1001.111.

1001.213 (12.213) LIFE DRAWING AND ANATOMY (3) The study of anatomical structure of the human figure for art students. Drawing from the nude and draped model. Prerequisite: 1001.111.

1001.215 (12.215) PROJECTIVE DRAWING (2) Methods of perspective, orthographic and isometric projections. The use of various media in the rendering of three dimensional form.

1001.216 (12.216) THE IMAGE OF WOMEN IN ART (3) Women in the history of art from prehistoric to the present with special emphasis in relation to the cultures studied.

1001.220 (12.220) EXHIBITION TECHNIQUES (2-3) The practical and theoretical problems involved in museum and gallery installation of art works. Includes study of past exhibition techniques and observation of contemporary methods. Directed museum trips. Prerequisite: 1001.103, 1001.104 or consent of instructor.

1001.225 (12.225) DESIGN FOR COMMERCIAL ART (3) Drawing, painting, lettering and typography as visual communication. Prerequisite: 1001.103.

1001.227 (12.227) WOOD (3) Lecture and directed studio exploration in designing, cutting, shaping, turning, joining, laminating, and finishing hard and soft woods. Both hand and machine tools will be used. Prerequisite: 1001.103, 1001.104.

1001.229 (12.229) OIL PAINTING AND RELATED MEDIA I (3) Varied approaches to painting and a variety of media (e.g. acrylic, encaustic, oil painting) are explored through demonstration and experimentation. Prerequisites: 1001.103 and 1001.111.

1001.230 (12.230) WATERCOLOR AND RELATED MEDIA I (3) Varied approaches to watercolor and a variety of media (e.g. gouache, casein, watercolor) are explored through demonstration and experimentation. Prerequisite: 1001.103 and 1001.111.

1001.231 (12.231) CERAMICS I (3) Creative investigation of ceramic materials with an emphasis on the potter's wheel. Studio work, lectures and discussion on ceramic design, techniques and materials. Prerequisite: 1001.103, 1001.104 or consent of instructor.

1001.234 (12.234) PHOTOGRAPHY I (3) A comprehensive investigation into the technique and aesthetic of still photography. Students must have a camera with adjustable diaphragm and shutter. Prerequisite: 1001.103, 1001.104 or written consent of instructor.

1001.240 (12.240) SCULPTURE: THE HUMAN FIGURE (3) An introduction to the use of human figure in sculpture. Clay modeling from the nude, with experience in direct plaster modeling and plaster casting. Prerequisites: 1001.103, 1001.104.

1001.241 (12.241) SCULPTURE: CONTEMPORARY MEDIA AND CONCEPTS (3) Technical and aesthetic considerations in the use of current sculptural concepts and media, including lights, kinetics, sound, plastics, etc. Prerequisites: 1001.103, 1001.104.

## Upper Division — Undergraduate and Graduate

1001.314 (12.314) THE ART OF ENAMELING ON METAL (3) Design as applied to the art of enameling on copper and silver. The appreciation of master works of enameling from medieval to contemporary times. Studio work and lectures. Prerequisites: 1001.103, 1001.104.

1001.318 (12.318) JEWELRY (3) Investigation into aesthetics, history, function and design of jewelry. Lecture and directed studio problems in forming, joining and finishing of metallic and non-metallic materials. Prerequisite: 1001.103 and 1001.104 or consent of instructor.

1001.319 (12.319) METALSMITHING (3) Lecture, demonstrations, and directed studio problems in raising, forging, joining, and finishing various metals with emphasis on design and creation of hollow-ware and flatware. The historic and aesthetic aspects of the media are considered. Prerequisite: 1001.318. (Not for Graduate Credit)

1001.323 (12.323) PICASSO TO THE PRESENT (3) Art History with emphasis on painting from 1900 to the present. Slide lectures, directed readings and museum trips. Prerequisites: 1001.121 and 1001.122.

1001.324 (12.324) HENRY MOORE TO THE PRESENT (3) Art History with emphasis on sculpture from 1900 to the present including new media and happenings. Directed readings and museum trips. Prerequisites: 1001.121 and 1001.122.

1001.325 (12.325) FRANK LLOYD WRIGHT TO THE PRESENT (3) Art History with emphasis on architecture from 1900 to the present including time-space concepts. Prerequisites: 1001.121 and 1001.122.

1001.326 (12.326) FABRIC DESIGN (3) Design problems executed with fabric. Instruction in tie dyeing, batik, block printing, silk screen on fabric. Prerequisites: 1001.103, 1001.104 or consent of instructor.

1001.328 (12.328) WEAVING AND FIBER CONSTRUCTION (3) Design problems executed in fibers and fabrics. Instruction in loom and hand weaving, macramé, stitchery, rug hooking, etc. Aesthetic and historical considerations. Prerequisites: 1001.103, 1001.104 or consent of instructor.

1001.329 (12.329) OIL PAINTING AND RELATED MEDIA II (3) Continued studio experiences in painting. Prerequisite: 1001.229 or consent of instructor. (Not for Graduate Credit)

1001.330 (12.330) WATERCOLOR AND RELATED MEDIA II (3) Continued studio experiences in painting. Prerequisite: 1001.230 or consent of instructor. (Not for Graduate Credit)

- 1001.331 (12.331) CERAMICS II (3) Continued studio experience in ceramics. Assigned problems utilizing a variety of clay construction methods plus independent work. Lectures and discussion including clay mixing, glaze application and kiln operation. Prerequisite: 12.231. [Not for Graduate Credit]
- 1001.334 (12.334) PHOTOGRAPHY II (3) Continued research with the photographic aesthetic. Emphasis on independent investigation. Student must have camera with adjustable diaphragm and shutter. Prerequisite: 1001.234 or written consent of the instructor based on demonstration of technical competence.
- 1001.335 (12.335) COLOR PHOTOGRAPHY I (3) An investigation into the use of color and form in still photography through the use of positive and negative transparencies. Prerequisite: 1001.234 and 1001.334 or equivalent.
- 1001.339 (12.339) METAL SCULPTURE (3) Conceptual and technical problems involved in forging, forming, welding, soldering and finishing both ferrous and non-ferrous metals. Prerequisite: 1001.240 or 1001.241.
- 1001.340 (12.340) SCULPTURE STUDIO: MODELING (3) Continued studio experience in modeling with emphasis on the use of a variety of techniques and materials: wax, plasters, cements, clay, resins, epoxy metals. Prerequisite: 1001.240.
- 1001.342 (12.342) SCULPTURE STUDIO: CARVING (3) Technical and aesthetic problems involved in carving stone, wood and other carvable media; studio problems; museum visits. Prerequisite: 1001.240 or 1001.241.
- 1001.343 (12.343) GREEK AND ROMAN ART (3) Studies in architecture, the decorative arts and sculpture, slide lectures, readings and museum visits. Prerequisites: 1001.121.
- 1001.344 (12.344) BYZANTINE TO GOTHIC ART (3) Studies in architecture, the decorative arts and sculpture, slide lectures, readings and museum visits. Prerequisites: 1001.121.
- 1001.345 (12.345) ITALIAN RENAISSANCE ART: 15th-16th CENTURIES (3) Studies in architecture, painting and sculpture, slide lectures, readings and museum visits. Prerequisites: 1001.122.
- 1001.346 (12.346) THE BAROQUE AND 18th CENTURY (3) Studies in European architecture, painting and sculpture of the period. Slide lectures, readings and museum visits. Prerequisites: 1001.122.
- 1001.347 (12.347) SCREEN PROCESS (3) Personal expression in traditional and experimental techniques of screen printing: Serigraphy in color, tusche, stencil, glue. Prerequisites: 1001.103, 1001.111 or consent of instructor. [Not for Graduate Credit]
- 1001.349 (12.349) RELIEF PROCESS (3) Personal expression in printmaking: Woodcut, wood engraving, linocut, subtractive color printing and other relief processes. Prerequisite: 1001.103, 1001.111 or consent of instructor. [Not for Graduate Credit]
- 0831.371 (12.371) ART AND THE CHILD (2-3) Major considerations of art education appropriate to the work of the elementary teacher; experiences with art materials. [Not for Graduate Credit]
- 0831.375 (12.375) MATERIALS AND TECHNIQUES FOR TEACHERS OF ART (3) Art media and the materials and processes of the crafts are structured for varied learning levels. Visits to schools and other art teaching situations as observers and aides are an integral part of the course. Prerequisite: A major in Art Education or consent of the instructor. Must precede student teaching. [Not for Graduate Credit]
- 1001.391 (12.391) RESEARCH IN ART HISTORY (3) Bibliographic research procedures in Art History. The preparation of publications, including term papers, theses, reviews and criticism. Study of the provenance and condition of works of Art. History of scholars and writing in the field. Prerequisite: 1001.121 and 1001.122. [Not for Graduate Credit]
- 1001.405 (12.405) ART PRINCIPLES AND CRITICISM (3) Principal concepts of art; theories of perception and aesthetics; application of theories to the interpretation of specific works of art. Prerequisite: 1001.105 or 1001.121 or 1001.122.
- 1001.414 (12.414) ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice.
- 1001.415 (12.415) ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice.
- 1001.416 (12.416) ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice.
- 1001.418 (12.418) JEWELRY II (3) Continued studio experiences in jewelry. Directed studio problems in the techniques of casting, fabrication, raising, forging, stone setting. With an emphasis on independent work and personal expression. Prerequisites: 1001.318.
- 1001.431 (12.431) ADVANCED CERAMICS (3) Individually designed studio problems for advanced students in ceramics. Prerequisite: 1001.331.
- 1001.433 (12.433) ADVANCED PAINTING: OILS (3) Individually selected studio problems in oils and related media for advanced students in area of special interest. Prerequisite: 1001.329.
- 1001.434 (12.434) ADVANCED PAINTING: WATERCOLOR (3) Individually selected studio problems in watercolor and related media for advanced students in area of special interest. Prerequisite: 1001.330.
- 1001.440 (12.440) ADVANCED SCULPTURE (3) Individually selected studio problems for advanced students in their area of special interest. Prerequisite: 1001.340 or 1001.342.
- 1001.449 (12.449) INTAGLIO PROCESS (3) Personal expression in printmaking: Etching, drypoint, aquatint, engraving, and other intaglio processes. Prerequisite: 1001.103, 1001.111 or consent of instructor.
- 1001.451 (12.451) LITHOGRAPHIC PROCESS (3) Personal expression through printing from Litho stones and plates. Prerequisite: 1001.103, 1001.111 or consent of instructor.
- 0831.455 (12.455) PRO-SEMINAR IN THE TEACHING OF ART (3) A professional seminar for Art Education majors. Discussion of problems in the current teaching experience. Prerequisite: Permission of Department chairperson. Concurrent with student teaching. [Not for Graduate credit]
- 1001.461 (12.461) INTRODUCTION TO ART THERAPY I (3) A survey of the concepts and procedures of creative expression in the service of personal understanding and development. Consideration of educational, rehabilitatory and



psychiatric settings. Lectures, discussions, workshops, and readings. Prerequisite: At least junior standing as a major in Art, Psychology, Health, Mental Health or associated fields. Approved work experience in one of the above fields may be substituted.

1001.462 (12.462) INTRODUCTION TO ART THERAPY II (3) Continuation of Art Therapy I, the work of the therapist. Case studies, observations and participation in a variety of settings. Discussion, field work and readings. Prerequisite: 1001.461 or consent of instructor.

0831.471 (12.471) ADVANCED ART EDUCATION (3) Art education problems at all levels; materials and skills in relation to classroom needs. Prerequisite: 0831.371 or equivalent.

0831.475 (12.475) TEACHING ART IN THE ELEMENTARY SCHOOL (2) Concurrent course with 479, Art in the Secondary School. For course description see 479. Open only to Art Education Majors. Prerequisite: All major art requirements plus 1001.225, 2001.201 and 0803.319. (Not for Graduate Credit)

0831.479 (12.479) TEACHING ART IN THE SECONDARY SCHOOL (2) Theoretic basis of art education, the function of the art specialist, and instructional materials and skills. Concurrent course with 475. Open only to art education majors. Prerequisite: All major art requirements plus 1001.225, 2001.201 and 0803.319. (Not for Graduate Credit)

1001.485 (12.485) SEMINAR IN ART HISTORY (3) Intensive analysis of a defined historical period or stylistic development in art. Directed readings in both period and contemporary sources. Discussions and museum tours. Variety in content each year, may be re-elected. Prerequisite: 1001.121 and 1001.122 or consent of instructor.

1001.499 (12.499) SENIOR HONORS THESIS (4) Honors in Art History or Art Education—Writing of a standard thesis based on individual research under the direction of a thesis advisor. Honors in Studio Area—An exhibition of work resulting from Honors Studio courses, a supporting paper defining philosophy and purpose written under the direction of a thesis advisor. Prerequisite: Admittance to Art Department Honors Program.

## Graduate Division

1001.511 (12.511) DRAWING (3) Advanced problems in expressive draftsmanship. Prerequisite: 1001.211 or consent of instructor.

1001.514-515-516 (12.514-515-516) GRADUATE STUDIO (2-3) Independent work for graduate students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of his/her choice.

1001.529 (12.529) OIL PAINTING (3) For students with previous experience in painting, consideration of current trends and styles; studio work, museum visits, lectures. Prerequisite: 1001.329 or equivalent.

1001.530 (12.530) WATERCOLOR (3) Consideration of current trends and outstanding painters and styles. Studio work, museum visits, lectures. Prerequisite: 1001.330 or consent of instructor.

1001.531 (12.531) CERAMICS (3) Advanced work in ceramic design and techniques of glazes, clay bodies, firing. Prerequisites: 1001.331 or consent of instructor.

1001.540 (12.540) SCULPTURE (3) For students with previous experience in sculpture; consideration of current trends and styles; studio work, museum visits, lectures. Prerequisite:

sites: 1001.340 or 1001.241 or 1001.339 or 1001.342 or consent of instructor.

1001.551 (12.551) GRAPHICS: INTAGLIO, RELIEF (3) Studio work for artists with basic knowledge of intaglio and/or relief processes. Aspects of mixed media explored. Prerequisites: 1001.349 or 1001.449 or equivalent.

1001.553 (12.553) GRAPHICS: LITHOGRAPHY, SERIGRAPHY (3) Studio work for artists with a basic knowledge of lithography and/or serigraphy. Prerequisites: 1001.347 or 1001.451 or equivalent.

0831.595 (12.595) RESEARCH IN ART AND ART EDUCATION (3) Methods of research applicable to art and art education. Examination of recent research in this field. Students will explore areas of their choice. Prerequisite: Consent of instructor. Offered Fall Semester evening only.

0831.697 (12.697) SEMINAR IN ART EDUCATION (3) Investigation of problems and theories in art education and related fields. Examination of theories of art and art education. To be taken as final course in master's program. Prerequisite: 1001.595 and consent of instructor. Offered 1st session of summer school.

1001.699 (12.699) ART THESIS: CREATIVE PROJECT (3) If approved, student will pursue his project resulting in an exhibition of his work plus a paper defining the project's scope and philosophy. Prerequisite: 1001.697 and consent of the Department chairperson.

The Art Department offers a variety of highly specialized courses during the minimester session. Contact the Art Department for complete information on new courses which may not be included in this bulletin.

The following art education courses are supervised by members of the art faculty. Course descriptions will be found under the Education Department.

0802.497 STUDENT TEACHING IN ELEMENTARY SCHOOL ART.

0803.398 STUDENT TEACHING IN SECONDARY SCHOOL ART.



# Arts and Sciences

Coordinator: CHARLES C. ONION

The College offers a number of programs that afford students an opportunity to plan their own college programs, to follow individual interests, to experience a wide choice of courses from various departments and to prepare for certain specialized vocations. Interested students should consult one or more of the faculty advisors in the various programs as to requirements and procedures in declaring a major and pursuing a degree.

## Programs

Liberal Arts & Sciences — Core Program

Liberal Arts & Sciences — Thematic Option

General Arts & Sciences — Core Program

General Arts & Sciences — Thematic Option

General Arts & Sciences — Law Enforcement

African-American Studies

American Studies

Asian Studies

Comparative Ethnic Studies

Dance Core

Health Services Management

History of Art Concentration

Latin American Studies

Medieval and Renaissance Studies

Religious Studies

Women's Studies

MAJOR A — The Liberal Arts and Sciences Major constructed around a "core" discipline in the traditional Liberal Arts and Sciences fields.

MAJOR B — The General Arts & Sciences Major constructed around a "core" discipline in General Studies, which incorporates all of the Arts and Sciences.

THEMATIC OPTION — A student may fulfill the requirements for either Major A or Major B by substituting a thematic plan for the "core" discipline. We recognize that it is possible for Major A to be constructed out of Major B. We have made a formal distinction, however, because we wished both to create a major which preserves the concept of "liberal" arts and sciences in its traditional and widely understood meaning, and also to create a major (B) which offers maximum freedom of choice. In this way, a student who elects the former will carry a distinctive label.

## Major A — The Liberal Arts and Sciences Major

1. The student must satisfy General Education Requirements.
2. To declare the major, the student must be a sophomore or junior with a 2.0 GPA.
3. From the Liberal Arts and Sciences — Art, Biology, Chemistry, English, History, Modern Languages, Mathematics, Music, Philosophy, Physics and Theatre — the student must take a minimum of 45 semester hours of upper division course work. These 45 hours must include work from a minimum of 4 different departments. Eighteen credits must be from the Arts and 18 credits from the Sciences (Mathematics being considered a Science).
4. At least 15, but no more than 21, of the 45 upper division hours must come from one discipline which shall serve as the "core" discipline in the student's program.

## Major B — The General Arts & Sciences Major

1. The student must satisfy General Education Requirements.
2. To declare the major, the student must be a sophomore or junior with a 2.0 GPA.
3. From the Arts and Sciences, which are construed to be the following — Art, Biology, Chemistry, Economics, English, Geography, History, Modern Languages, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology, Speech and Theatre — the student must take a minimum of 45 semester hours of upper division course work. With the approval of the student's advisor and the appropriate associate dean, courses in departments not listed above may be allowed if these courses are needed to complement the student's program.
4. At least 15, but no more than 21, of the 45 upper division hours must come from one discipline which shall serve as the "core" discipline in the student's program.

## Thematic Options to the Arts and Sciences Majors

With the approval of his advisor and the appropriate association dean, a student may elect to substitute a thematic plan for the "core" discipline in either Major A or B. By following this plan the student could develop an academic concentration in areas such as urban studies, American studies, environmental issues, etc.

Except for the following, the requirements will be the same as for Major A or B:

1. A minimum of 15, but not more than 36, of the 45 upper division hours must relate specifically to a chosen topic or theme.
2. All course work must be on an upper division level unless the faculty advisor approves the inclusion of some particularly significant course work at the lower division level. For example, a course important to the student's theme may exist only at the lower division level.

## General Information

The Environmental Studies Program is an interdisciplinary thematic option within the General Studies Major. The program is designed to provide students with the broad background in biology, chemistry, geography, health, mathematics, and physics essential for continued study or work in environment-related fields.

Administration of the program is conducted by an interdepartmental committee composed of one representative from each of the following disciplines: Biology, Geography, Health Sciences, and Physics. These committee members serve as faculty advisors to guide students in designing their individual course of study.

## Curriculum

Required of all Environmental Studies majors are these basic courses: Contemporary General Biology, General Chemistry I and II, Mathematics I, and Physics I and II.

Within the major the student is required to complete 45 upper division credits selected by the student and his/her advisor from courses that relate specifically to the environmental theme. The interdisciplinary nature of this program

may require certain introductory level courses; therefore, the faculty advisor may allow a certain portion of these credits at the lower division level.

To provide a basic program for all students with this major, 18 to 36 credit hours should be selected from among prescribed courses in the biological and earth sciences. However, no more than 21 credits are allowed in one discipline. The remaining credit hours of additional work may then be chosen according to the student's choice of emphasis from among courses in the Biology, Chemistry, Geography, Health Sciences and Physics Departments.

**General Education**

The structure of a society and the related behaviors and systems of the members of that society are intimately involved in the complexities of environmental problems. A student who elects an option in environmental studies could benefit from courses that might help in developing a wholistic viewpoint suitable to the study of environment. Such courses should also include those useful in the development of skills necessary to the analysis and communication of ideas.

Some areas from which a student may be encouraged to select courses for general education and free electives include social and psychological sciences, economics, math and statistics, and health.

**Advisory Committee**

- Lois Odell, Biology Department
- Norman Diffenderfer, Geography Department
- John Gay, Health Sciences Department
- Loretta Molitor, Physics Department, Program Coordinator

**LAW ENFORCEMENT AND CORRECTION**

This Thematic Option has the following objectives:

1. To provide in-service law enforcement and correctional personnel the opportunity to further their education beyond the junior college with a minimum loss of credits from their junior college program.
2. To provide an interdisciplinary degree with a strong emphasis on sociology, psychology and political science.
3. To provide the community with law enforcement personnel who are able to make good value judgments, to maintain their perspectives, to understand underlying causes of human behavior, and to communicate clearly and precisely.

The specific requirements of this thematic option will consist of the following upper division courses to be taken at Towson State College or a cooperative school:

**Health:** 6 credits beyond Current Health Problems. Sex Education and Family Living or Human Sexuality; and Drugs in the Culture.

**History:** 6 credits beyond U.S. I and II, chosen from the following: Social History U.S. I; Social History U.S. II; Constitutional History U.S.; City in American History; Immigrant in American History; History of Black America.

**Political Science:** 6 credits beyond American National Government. Urban Government & Politics; and Public Administration.

**Psychology:** 9 credits beyond General Psychology, chosen from the following: Mental Hygiene, Abnormal Psy-

chology, Social Psychology, Adolescent Psychology, Personality, Foundations of Rehabilitation Counseling, Interviewing Techniques. Mental Hygiene or Abnormal Psychology is required.

**Sociology:** 9 credits beyond Introduction to Sociology, chosen from the following including Juvenile Delinquency; and Criminology. Criminology; and Juvenile Delinquency PLUS one of the following: Social Welfare; \*Urban Sociology; Community Organization; Minority Groups; Collective Behavior; Social Deviance.

**Approved Electives Recommended To Law Enforcement Students**

**Business Administration:** Business Management; Accounting Principles I; Accounting Principles II; Business Law I; Business Law II; \*Personnel Management.

**Geography:** Intro to Urban Planning; Principles of Zoning; Urban Geography.

**Political Science:** Introduction to Law; Constitutional Law.

\* Please note possibility of additional prerequisites for certain courses.

**AFRICAN-AMERICAN STUDIES PROGRAM**

The African-American Studies Program offers a student the opportunity to study in-depth the historical and cultural existence of the Afro-American by examining his unacknowledged roles in American society, and the presence and importance of the Black aesthetic culturally, socially, politically, and economically. An interdisciplinary program concentrating mainly in the humanities, the curriculum is subject to review and flexibility, as courses may be added or subtracted with the permission of the Advisory Committee and the Associate Dean.

Students may choose a major in the program, select courses to structure major within the General Studies Program, or simply take courses as electives.

For further information, please contact one of the following advisors:

**Advisory Committee**

- Johnella Butler, Coordinator of the Program, Department of English
- Thomas Knox, Associate Dean, Student Services
- James Lindner, Education Department
- Richard Nzeadibe, History Department

**Major Requirements**

- A. American Literature 1501.211, 1501.212 recommended  
United States History 2205.145, 146 required  
Introduction to Sociology 2208.101 required
- B. 15 hours of required courses in African-American Studies
  - Survey of Black-American Literature 1501.251
  - Survey of Black American Literature 1501.252
  - (Major Writers)
  - History of Black Americans 2205.381
  - African World I 2205.133
  - African World II 2205.134
- C. 15 hours chosen from the following courses (check department for the course description)
  - Literature of Black America 1501.401
  - The Geography of Africa 2206.431
  - Urban Geography 2206.391

Introduction to Urban Planning	2206.251
African Government and Politics	2207.341
Africa in World Politics	2207.435
Sub-Saharan Africa	2205.333
Afro-American Perspectives	4901.401
History of West Africa 1500-1885	2205.334
History of Contemporary Africa	2205.335
Minority Groups	2208.381
Black White Relations	2208.470
Blacks in America: Myths and Realities	2208.241
Urban Sociology	2208.327
Urban Economics	2204.351
History of Afro-American Art	Number not assigned

New courses, special topics, and mini-mester courses may be accepted toward the major with approval of the committee.

4901.401 (33.401) AFRO-AMERICAN PERSPECTIVES (3) Afro-American Perspectives is a college credit course combining televised lessons, on-campus seminars, and related workbook assignments. This course focuses upon the experiences of Black people. The course utilizes a multi-discipline format and inter-disciplinary treatment. It is structured around several themes, inquiry into which will encourage scholarly development in an otherwise emotional arena. May be taken for Master's degree credit only with the approval of the appropriate graduate coordinator. Prerequisites: Either African History or Black American History or Black American Literature or consent of instructor.

## AMERICAN STUDIES

Coordinator: PAUL DOUGLAS

### The Program

The American Studies concentration within the General Studies major at Towson State College is an interdisciplinary program that allows a student to take courses in different academic departments. The American Studies approach stresses the inter-relatedness of such elements in our society as the fine arts, architecture, popular culture, folklore, technology, and the vernacular arts. Students examine American institutions, ideas, and material forms in order to better understand their past and shape their future. Although the American Studies major will have a knowledge of literature, history, economics, and art, his main concern will be within the concept of culture as it applies to the United States.

The degree granted is the B.A. or B.S. in General Studies with a concentration in American Studies.

### Who Should Major in American Studies

Those students desiring to pursue careers in American Studies. The program at Towson State provides an important foundation for graduate work at the M.A. or Ph.D. level in American Studies. Presently there are over fifty graduate programs in the United States offering American Studies degrees.

Those students who wish to do American Studies related work in fields such as teaching, historic preservation, journalism, museum administration, law, history, literature, and others.

Those students who may not have any concrete career goals but who desire a broad knowledge of American civilization and a methodology to understand and interpret it. The program welcomes older students who may apply their knowledge of our culture to their academic or intellectual interests.

## Major Requirements

The following lower division courses must be taken by the American Studies major:

American Literature 1 and 2; or Black Literature 1 and 2  
American History 1 and 2  
Cultural Anthropology  
American National Government

The following upper division courses are required:

Introduction to American Studies  
Seminar in American Studies  
American Literature core (15 hours) and  
American History (6 hours)

or

American History core (15 hours) and  
American Literature (6 hours)

American Studies related courses in various departments (12 hours)

Additional courses in the Arts and Sciences (6 hours)

4901.301 (33.301) INTRODUCTION TO AMERICAN STUDIES

(3) The first part of the course will be an examination of the aims and methods of American Studies. The second part will be a study of a specific topic or period in American civilization by examining literature, the fine arts, architecture, history, technology, and popular culture. Prerequisites: 6 hours of American history or 6 hours of American literature.

4901.481 (33.481) SEMINAR IN AMERICAN STUDIES (3)

Reading and research dealing with an aspect of American civilization and culture to be selected by the instructor. A seminar paper is required. Prerequisites: 4901.301.

4901.497 (33.497) PRACTICUM IN MATERIAL CULTURE (3)

Students will work with members of the curatorial staff at the Maryland Historical Society to learn various museum techniques, examine the collections at the Society, and understand the educational and scholarly uses of material culture. A minimum of 80 hours is required. Prerequisites: 4901.301 and consent of American Studies coordinator.

## ASIAN STUDIES

Coordinator: EDWIN HIRSCHMANN

A student interested in Asian Studies has a wide variety of options open to him and may, with the approval of an advisor, select a program of courses to fit his requirements from among those available on the cultures and societies of the Asian peoples, their geographic and historical backgrounds, and their international roles.

He might wish it as preparation for a career involving Asian peoples or cultures, or simply to obtain a broader and fuller understanding of a large part of the world. He might wish to concentrate on one particular Asian society or to obtain some familiarity with several. Whatever his needs, the Committee for Asian Studies will try to assist him.

Those students who wish to combine their Asian interests with a useful program in social sciences and international relations are advised to major in International Studies under Plan B. Others may major in General Studies, with Asian Studies as a Thematic Option.

Courses with Asian content are offered in the departments of Art, Geography, History, Modern Languages (Chinese and Japanese are the languages currently offered), Philosophy, and Political Science. Other departments offer courses helpful to an understanding of Asia, and these would be included in a balanced program.

4901.105-106 (33.105-106) JAPANESE ELEMENTS I, II (3, 3) Development of elementary vocabulary and sentences, forms

of written language, conversation, composition and translation. This course will be given using the techniques of programmed instruction.

4901.111-112 (33.111-112) **ELEMENTARY MODERN CHINESE I, II** (3, 3) The first and second of a series of four courses in Chinese Language. An introduction to standard modern Chinese (Mandarin). Emphasis is on reading and writing of Chinese. Pin Yin, the phonetic system of pronouncing Chinese words is introduced. Text, sound tape and vocabulary cards.

4901.140 (33.140) **PERSPECTIVES ON ORIENTAL ARTS** (3) Lectures, displays, and discussions by a number of experts on the various types of oriental art. The course is designed to acquaint the novice and the experienced as well with deeper insights into the oriental culture through an examination of art objects in the college's own collection; additional objects brought by guest speakers themselves, and by discussions led by guest experts.

4901.195 (33.195) **CLASSIC CULTURE OF JAPAN** (3) A study of the factors which molded and established the Japanese culture from 1000 AD to 1900.

4901.201 (33.201) **CLASSIC JAPANESE ARTS AND CULTURE** (2) Study of Japanese Arts and Culture from C. 1000 A.D. to 1900 A.D. through directed independent readings.

4901.205-206 (33.205-206) **JAPANESE: INTERMEDIATE III, IV** (3, 3) Review of elementary Japanese; intermediate Kanji; conversation and prose composition; translations; outside readings commensurate with the ability of the individual student. This course will be given using the technique of programmed instruction. Prerequisites: 4901.105-106.

4901.421 (33.421) **INTERDISCIPLINARY WORKSHOP IN ASIAN STUDIES** (3) Intensive study of a chosen region of Asia, including its physical environment, historical development, government, society, culture, and their interrelationship. An interdisciplinary team of faculty experts will participate, and the region of Asia will vary according to demand. Prerequisites: Approval of coordinator.

## THEMATIC PLAN: COMPARATIVE ETHNIC STUDIES

The Comparative Ethnic Studies concentration within the General Studies major is an interdisciplinary program that provides literary, historical, political, sociological, economic and geographic perspectives on American ethnic groups with an emphasis on Baltimore's communities. Courses examine the impact of race, religion, family and community on Ethnic-Americans and their development in the United States.

The Comparative Ethnic Studies program prepares students to live in a multi-ethnic society and for positions in education, social work, personnel, human relations, labor relations, urban planning, mental health, government service and other areas where an awareness of ethnic diversity, problems, and needs are essential.

The Comparative Ethnic Studies concentration is administered by an advisory committee. The faculty members on the committee will serve as advisors to students majoring in the program.

### Advisory committee:

Douglas Martin, History  
Evelyn Avery, English  
Anthony Cacossa, Modern Languages  
Julius Chapman, Associate Dean of Minority Students  
Vincent Colimore, Education  
Sara Coulter, English  
Dean Esslinger, History

Hlib Hayuk, Geography  
Thomas Knox, Acting Vice President, Student Services  
George Kranzler, Sociology  
James Lindner, Education  
Jean Scarpaci, History  
Ann Scheper, Sociology

## Major Requirements

- A. United States History recommended 2205.145, 2205.146  
American Literature recommended 1501.212  
Introduction to Sociology recommended 2208.101  
45 upper division hours are required for graduation and may be taken in Comparative Ethnic Studies and in other disciplines.
- B. 9 hours required  
Introduction to Comparative Ethnic Studies 4901.241  
Ethnic-American Literature 1501.261  
The Immigrant in American History 2205.377
- C. 18-27 hours chosen from the following courses  
Topics in Multi-Ethnic American Literature 1501.475  
The City in American History 2205.375  
Indian-White Relations in American History 2205.379  
Oral History: Ethnic Communities of  
Baltimore 2205.489  
Urban Economics 2204.351  
Urban Government & Politics 2207.305  
Group Politics & Public Opinion 2207.450  
The Young Black Child in a Multi-Cultural Setting 0823.425  
History of Black Americans 2205.381  
Afro-American Literature 1501.401  
Six credits of related language courses approved by the committee.

4901.241 (33.241) **INTRODUCTION TO COMPARATIVE ETHNIC STUDIES** (3) The course will focus on Baltimore's ethnic groups as a microcosm of American society, and will examine the interaction of ethnic communities (Black, Jewish, Italian, Greek, Eastern-European, Irish, and others) in Baltimore. The interdisciplinary approach will use the talents of social scientists, community representatives, and public school personnel as consultants and guest lecturers.

## DANCE CORE

Coordinator: HELENE BREAZEALE

The Dance concentration within the General Studies major is designed to offer students a total spectrum of dance from its physical activity to its expression as a creative art form utilizing a variety of disciplines. In following the requirements for a Dance Core major, students will be equipped to pursue careers in performance and choreography. By including several of the recommended electives, students will be prepared for graduate studies in Dance Education and/or Dance Therapy. Other career opportunities in Dance include the areas of teaching, research and history, dance notation, and journal criticism. Professions directly related to Dance include: lighting, costuming, decor, technical production, music (composing and accompanying), administration and management.

Placement examinations will be held each Spring to determine the technical level of each Dance Core major student. Where applicable, it will be possible for students to earn credit for prior experience. A listing of recommended electives is available from the Dance Coordinator for students interested in Dance Education and/or Dance Therapy.

## Requirements

Physical Education	*0835.343-.344	Intermediate Ballet I and II (1, 1)
	*0835.443-.444	Advanced Ballet I and II (1, 1)
	*0835.445-.446	Advanced Modern Dance I and II (1, 1)
	*0835.365	Jazz Dance II (1)
	0835.340	History of the Dance (3)
Music	0835.317	Modern Dance Composition (3)
	*0835.319-.320	Choreographic Problems I and II (3, 3)
	*0835.313	Physiology of Exercise (3)
	*1005.301-.302	History of Music (summer only) or 2 period music courses (3, 3)
Theatre Arts	1007.231	Mime I (3)
	1007.245	Stage Make-up I (2)
	1007.355	Stage Lighting (3)
	1007.441	Costume Design (3)
Philosophy	*1509.343	Aesthetics (3)

\* These courses contain prerequisites.

## Required Prerequisites or Equivalent Experience:

- 0835.061-.062 Beginning Modern Dance I and II, 0835.063-.064 Beginning Ballet I and II,  
 0835.065 Jazz Dance I, 0835.079-.080 Intermediate Modern Dance I and II,  
 0401.101 General Biology, 0401.113-.114 Human Anatomy and Physiology,  
 1509.101 Introduction to Philosophy, 1005.101 Introduction to Music Literature,  
 0832.233 Music Fundamentals

## HEALTH SERVICES MANAGEMENT

The Health Services Management program is designed to help prepare students for management careers as administrative assistants, nursing home administrators, health planners, hospital or health care administrators, health planners, hospital or health care administrators, or varieties of middle management personnel such as department heads or supervisors. Depending upon student interests and availability of positions graduate training in health administration may be desirable after completing this program.

The Health Services Management program is administered by the Health Science Department. For advising contact the Chairperson of the Health Science Department.

The specific requirements of this thematic option consist of the following:

### Health Science

- 1201.202 Principles & Practices in Public Health  
 1201.207 Medical Care in the United States  
 1201.311 Epidemiology  
 or  
 41.3 Chronic & Communicable Disease  
 Upper Division Health elective

### Business Administration

- 0506.325 Business Law  
 0506.331 Financial Management  
 0506.381 Personnel Management  
 Upper Division Business Administration elective

## Other Required Related Courses

- 2204.201 Economics of Health  
 0701.235 Fundamentals of Computing  
 2208.391 Research Methods  
 Laboratory Science elective  
 2207.375 Public Administration  
 1501.333 Writing for Business and Industry

## Necessary Prerequisites

- 1201.101 Current Health Problems  
 0506.201 Accounting Principles  
 2204.101-102 Economic Principles & Problems  
 2208.101 Introduction to Sociology  
 2207.103 Introduction to American National Government  
 1701.231 Basic Statistics

Twenty-one additional credits of upper division electives should be completed under advisement.

Ecological Aspects of Health, and two health elective courses. Other Required Courses: 0401.101 Contemporary General Biology, 1905.100 Chemistry for Non-Scientists or 1905.101 General Chemistry, 0401.101 Human Anatomy and Physiology, 0401.114 Human Anatomy and Physiology, 0401.315 Medical Microbiology, 0506.101 Introduction to Business Management, 2204.101 Economic Principles and Problems I, 2204.201 Economics of Health, 2001.101 General Psychology, 2208.101 Introduction to Sociology, 1701.231 Basic Statistics (special section for health majors), and two semesters of physical education electives. It is strongly recommended that students electing the community health track also complete a minor in sociology, biology, psychology, or other appropriate related area.

## School and Community Health Specialization

Professional Education; 0801.101 Careers in Education, 2001.201 Educational Psychology, 0803.319 Survey of Educational Programs, 0801-401 Foundations of Education, 0803.398 Student Teaching, and 1201.205 Health Education in the School II. Health Requirements: 1201.101 Current Health Problems, 1201.103 First Aid, 1201.201 Health Education in the School I, 1201.202 Principles and Practices in Public Health, 1201.208 Mental Health, 1201.302 Preparation for Field Work in Public Health, 1201.303 Field Work in Public Health, 1201.401 Sex Education and Family Life, 1201.402 Health Seminar, 1201.405 Drugs in Our Culture, and one health elective course. Other Required Courses: 0401.101 Contemporary General Biology, 1905.100 Chemistry for Non-Scientists or 1905.101 General Chemistry, 0401.113 Human Anatomy and Physiology, 0401.114 Human Anatomy and Physiology, 0401.315 Medical Microbiology, 2001.101 General Psychology, 2208.101 Introduction to Sociology, 1701.231 Basic Statistics (special section for health majors), and two semesters of physical education electives.

## Graduate Program

A specialization in health education as part of a Master of Education program in Secondary Education has recently become available. For further information consult the graduate studies bulletin.

## Health Services Management

For further information see Health Services Management under Arts and Sciences on page .

## Lower Division — Undergraduate

1201.101 (41.101) **CURRENT HEALTH PROBLEMS** (3) Health problems of current interest or importance on an individual, community, national, and international basis. Includes a general overview of the state of nation's health.

1201.103 (41.103) **FIRST AID** (2) Designed for people who may be called upon to give first aid care in the course of their daily activities. Course content of the American Red Cross Standard First Aid and Personal Safety Course is included. The Red Cross Standard First Aid Certificate is awarded. (Does not meet general college graduation requirement.)

1201.104 (41.104) **PARENTAL AND CHILD HEALTH** (3) An introduction to parental and child health in its contemporary, social, and cultural setting. Discussion will include parenthood, prenatal care, growth and development of the child, the school environment, physical handicaps, and public health programs serving the maternal, infant, and preschool populations. Prerequisite: 1201.101.

## THE HISTORY OF ART CONCENTRATION

Interested students should contact either Dr. Ladd or Dr. Miller in the Fine Arts Building.

The History of Art Concentration, within the Liberal Arts Major, is a program which offers undergraduates the opportunity to explore the discipline of the History of Art in considerable depth. This investigation, performed well, leads to an understanding of the structure and function of the discipline. Also, it prepares the student for graduate work and offers an excellent background for many types of careers related to the study of the History of Art.

### Requirements for the History of Art Concentration:

**Core Discipline:** At least 15, but no more than 21, of the upper division hours must come from one discipline.

From the upper division the student may select from the following:

1. At least one course from 1001-323, 324, or 325.
2. At least two courses from 1001-343, 344, 345, or 346.
3. Art 1001-391, Research in Art History and Art 1001-485, Seminar in Art History are required.

**The Language Requirement:** Two years of either French or German or the equivalent examination is required to complete the program (elective for B.A. Liberal Arts degree).

### History of Art Courses Available:

#### Lower Level:

- 1001.131 The Art of China
- 1001.132 The Art of Japan
- 1001.121 Prehistoric to Medieval Arts
- 1001.122 Renaissance to Contemporary Art
- 1001.206 Architectural Concepts
- 1001.216 The Image of Women in Art

#### Upper Level:

- 1001.323 Picasso to the Present
- 1001.324 Henry Moore to the Present
- 1001.325 Frank Lloyd Wright to the Present
- 1001.343 Greek and Roman Art
- 1001.344 Byzantine to Gothic Art
- 1001.345 Italian Renaissance Art
- 1001.346 The Baroque and the 18th Century
- 1001.391 Research in Art History
- 1001.485 Seminar in Art History

**Honors Programs:** The student may elect to take the honors program in the History of Art. Eligibility requirements governing the college honors program are described in this catalog.

## LATIN AMERICAN STUDIES PROGRAM

The Latin American Studies concentration within the General Studies major allows the student to approach the study of Latin America as an area from an interdisciplinary perspective. It would be an appropriate concentration for those intending to pursue Latin American Studies or Spanish on the graduate level, for those anticipating living or working in Latin America, or for those wishing to acquire expertise in Latin America for a career in business or government.

The Latin American Studies Program is administered by the Latin American Studies Committee. The student should select one of the members of the committee as an advisor.

Latin American Studies Committee:

Frank Sanders — History  
M. Barbara Leons — Anthropology  
Jorge Giro — Modern Languages  
David Dent — Political Science  
George Beishlag — Geography

### Requirements

1. Spanish Composition and Conversation (82.301) or its equivalent.
2. Thirty credits chosen from the following Latin American related courses. The courses must be selected from at least four of the five departments represented. (The student is reminded that a total of 45 Upper Division hours is requested for the completion of a General Studies major.)

#### Spanish

- 1105.312 Culture & Civilization of Latin America
- 1105.435 19th Century Spanish American Literature I
- 1105.436 19th Century Spanish American Literature II
- 1105.443 20th Century Spanish American Literature I
- 1105.444 20th Century Spanish American Literature II
- 1105.491-492 Directed Readings

#### Anthropology

- 2202.366 Ethnology of South America
- 2202.377 Societies & Cultures of Latin America
- 2202.499 Independent Study

#### Political Science

- 2207.355 Latin American Policy of the U.S.
- 2207.351 Government & Politics of Latin America
- 2207.481 Independent Study
- 2207.471 Special Topics: Castro and the Cuban Revolution

#### Geography

- 2206.461 Geography of South America
- 2206.463 Geography of Central America and the Caribbean
- 2206.495 Directed Readings

#### History

- 2205.121 Latin America: Colonial Period
- 2205.122 Latin America: National Period
- 2205.321 Mexico: Colonial Period
- 2205.322 Mexico: National Period
- 2205.325 History of Indians of Middle and South America: Aztec, Maya, Inca.

## THEMATIC OPTION-MEDIEVAL AND RENAISSANCE STUDIES

### Advisory committee:

Rene Debrabander — Philosophy  
 Robin Hatcher — English  
 Jenny Jochens — History  
 Frederick Ladd — Art  
 Armin Mruck — History

By electing the concentration in Medieval and Renaissance Studies, majors in the General Arts and Sciences receive the opportunity for comprehensive interdisciplinary study of the Medieval and Renaissance period. A degree in Medieval and Renaissance Studies can lead to fulfilling careers in such areas as teaching, museum work, archival research, and freelance writing, as well as to interdisciplinary graduate studies in the Middle Ages and the Renaissance. As a second major, this concentration provides a special perspective on almost any other field of study. Students in this field can have unique opportunities to study the Medieval and Renaissance collections at Baltimore's Walters Art Gallery, Washington's Folger Library, the National Gallery of Art, and Dumbarton Oaks.

Students with this thematic option will earn the Bachelor of Arts degree. Like all General Arts and Sciences majors, students choosing this concentration must take at least 45 semester hours of upper division course work from the Departments of Arts and Sciences. Of these, at least 36 hours shall consist of course work in subjects related to the Middle Ages and the Renaissance (List I below). 18 of the 36 hours shall be distributed as follows:

6 hours in English

6 hours in History

6 hours from two of the following departments:

Art, Modern Languages, and Philosophy.

The remaining 18 hours may be distributed according to the student's choice, except that no more than 21 hours may come from a single department.

Directed readings, research methods, independent study, honors thesis or mini-mester courses in Medieval and Renaissance topics, when approved by the Medieval and Renaissance Studies Committee, may be undertaken within the requirements of the departments that offer them and with the approval of the teaching faculty member. Instruction in Latin for students who wish it can be arranged through the Department of Modern Languages.

### I. Upper-Division Courses Applicable to a Medieval and Renaissance Studies Concentration

An asterisk marks those courses whose subject matter changes from semester to semester and which hence are not always applicable to the Medieval and Renaissance Studies concentration. Before pre-registration, the Committee will make available a list showing which asterisked courses are applicable to Medieval and Renaissance Studies for that semester. The subject matter of some of these courses can be arranged according to students' individual interest. Students wishing to use such courses towards their Medieval and Renaissance Studies concentration should consult with their advisors in the program and with the course instructor during the semester before they intend to take the course.

#### Department of Art

1001.314 Byzantine to Gothic Art

1001.345 Italian Renaissance Art: 15th-16th Centuries  
 1001.485 \*Seminar in Art History

#### Department of English

1501.302 The English Renaissance  
 1501.303 17th Century Poetry and Prose  
 1501.319 English Medieval and Renaissance Drama  
 1501.340 Medieval Literature  
 1501.410 Chaucer  
 1501.412 Milton  
 1501.415 Shakespeare (Comedies)  
 1501.416 Shakespeare (Tragedies)  
 1501.430 History of the English Language  
 1501.471 \*Topics in World Literature  
 1501.472 \*Topics in English Literature  
 1501.485, \*Seminar in English Studies  
 486  
 1501.491 \*Directed Reading in English  
 1501.494 \*Travel and Study

#### Department of Geography

2206.451 Geography of Europe

#### Department of History

2205.302 Classical Civilizations  
 2205.303 Hellenistic Civilization  
 2205.401 The Early Middle Ages: 300-1050  
 2205.402 The High Middle Ages: 1050-1350  
 2205.403 The Renaissance Era: 1300-1530  
 2205.404 The Reformation: 1500-1648  
 2205.417 Economic History of Europe I  
 2205.419 European Intellectual History I  
 2205.461 \*Seminar in European History  
 2205.483 \*Directed Individual Research  
 2205.491 \*Biographical Studies in History  
 2205.492 \*Historical Themes  
 2205.494 \*Travel and Study  
 2205.496 \*Colloquium  
 2205.497 \*Directed Reading  
 2205.499 \*Senior Thesis

#### Department of Modern Languages

1102.321 Survey of French Literature I  
 1102.470 \*Special Topics in French  
 1102.491 \*Directed Reading in French Literature  
 1103.321 Survey of German Literature I  
 1103.491, \*Directed Readings in German  
 492  
 1104.321 Survey of Italian Literature I  
 1105.321 Survey of Spanish Literature I  
 1105.491 \*Directed Reading in Spanish Literature

#### Department of Music

1005.301 History of Music I  
 1005.501 Music Prior to 1600

#### Department of Philosophy

1509.321 Pre-Socratic and Classical Greek Philosophy  
 1509.322 Late Classical and Medieval Philosophy  
 1509.323 Late Medieval and Renaissance Philosophy  
 1509.440- \*Philosophical Systems  
 49  
 1509.470- \*Philosophical Problems  
 79  
 1509.495 \*Research Tutorial in Philosophy

#### Department of Theatre Arts

1007.321 Acting III [Shakespearean Roles]



**II. Lower and Upper Division Courses Recommended for Students concentrating in Medieval and Renaissance Studies**

This list contains (1) lower-division courses whose content is largely in the Medieval and Renaissance areas or their backgrounds; and (2) lower- and upper-division courses whose methodologies are valuable to students of the Middle Ages or the Renaissance. The upper-division courses can be counted towards the student's 45 semester hours in the General Arts and Sciences.

**Department of Art**

- 1001.105 Art in the Culture
- 1001.121 Prehistoric to Medieval Art
- 1001.122 Renaissance to Contemporary Art

**Department of Communication Arts and Sciences**

- 1599.403 Classical and Modern Rhetoric

**Department of English**

- 1501.201 Readings in World Literature I
- 1501.204 English Literature I
- 1501.226 Introduction to Classical Mythology
- 1501.326 Myth and Literature
- 1501.328 History and Literature of the Old Testament
- 1501.347 Folklore and Literature

**Department of History**

- 2205.101 Introduction to Ancient Civilization
- 2205.201 Survey of English History to 1783
- 2205.241 History of European Civilization I
- 2205.498 Philosophy of History

**Department of Philosophy**

- 1509.354 Philosophy of Biblical Literature: Old Testament
- 1509.454 Philosophy of Biblical Literature: New Testament

**Department of Sociology and Anthropology**

- 2202.207 Cultural Anthropology
- 2202.388 Peasant Cultures

**Department of Theatre Arts**

- 1007.105 Theatre and the Humanities I
- 1007.106 Theatre and the Humanities II
- 1007.241 Costume History and Design: Egypt to Renaissance

**Honors Program**

Students interested in earning Honors in Medieval and Renaissance Studies should see their advisor in the program.

**RELIGIOUS STUDIES THEMATIC OPTION**

The Religious Studies concentration is an interdisciplinary program which offers students the opportunity to study religion from a variety of perspectives. The program is administered by a faculty committee: John B. Boles, History; Stephen Bailey, Psychology; Jenny Jochens, History; Justine Jones, Sociology; Bruce Robertson, Philosophy and Gary Wood, English.

As in all thematic options, 45 credits must be taken in upper division courses. For the religious studies option, 36 credits must be from the approved list of courses having substantial religious content. No more than four lower division credits may be applied to this 36 credit requirement, and no more than 21 of the 36 credits may be taken

in any one department. The distribution of 18 of the 36 credits must be: six from the Department of History, six from the Department of Philosophy & Religion, and six from other departments.

Directed readings, research methods, independent study, honors thesis or mini-mester courses in religious topics, when approved by the religious studies committee, must be undertaken within the requirements of the department that offers them and with the approval of the teaching faculty member.

The following courses are approved for credit in the religious studies option. However, courses marked with an asterisk are only applicable during semesters when they have been approved for credit by the religious studies committee. The committee shall meet prior to pre-registration each semester to determine which of the courses marked with an asterisk shall be applicable for credit to the religious studies program for the following semester. Students may also apply to the committee for approval of transfer credits from other colleges into the religious studies option within the existing college rules for transfer.

**Approved Course List**

(\* indicated approval required each semester offered)

**Department of Art**

- 1001.131 The Art of China
- 1001.132 The Art of Japan
- 1001.221 Greek and Roman Art
- 1001.222 Byzantine to Gothic Art
- 1001.223 Italian Renaissance Art: 15th & 16th Centuries
- 1001.224 The Baroque and 18th Century
- 1001.485 \*Seminar in Art History

**Department of English**

- 1501.213 \*Ideas in Literature
- 1501.226 Introduction to Classical Mythology
- 1501.302 \*Topics in World Literature
- 1501.305 \*Topics in English Literature
- 1501.311 \*Topics in American Literature
- 1501.326 \*Myth and Literature
- 1501.328 History and Literature of the Old Testament
- 1501.485 \*Seminar in English Studies
- 1501.486 \*Seminar in English Studies
- 1501.491 \*Directed Reading in English
- 1501.494 \*Travel and Study

**Department of History**

- 2205.277 A Survey of Jewish History
- 2205.303 Hellenistic Civilization
- 2205.371 U.S. Religious History
- 2205.372 U.S. Religious History
- 2205.400 \*Seminar in American History
- 2205.401 Medieval Civilization I
- 2205.402 Medieval Civilization II
- 2205.404 The Reformation: 1500-1648
- 2205.461 \*Seminar in European History
- 2205.491 \*Biographical Studies in History
- 2205.492 \*Historical Themes
- 2205.494 \*Travel and Study
- 2205.495 \*Seminar in Comparative Studies
- 2205.496 \*Colloquium
- 2205.497 \*Directed Reading

**Department of Philosophy and Religion**

- 1509.301 Philosophies of India
- 1509.302 Philosophies of China and Japan
- 1509.322 Late Classical and Medieval Philosophy

- 1509.341 \*Ethics
- 1509.354 Philosophy of Biblical Literature:  
Old Testament
- 1509.410 \*Contemporary Ethical Problems
- 1509.411 \*Philosophical Problems
- 1509.421 Archaeology of Palestine and Trans-Jordania
- 1509.451 Philosophy of Religion
- 1509.454 Philosophy of Biblical Literature:  
New Testament
- 1509.455 Hellenistic Era
- 1509.457 Comparative Religion I
- 1509.458 Comparative Religion II
- 1509.459 Protestant, Catholic, Jew
- 1509.461 Historical Geography of Palestine
- 1509.463 Modern Atheism
- 1509.495 \*Research Tutorial in Philosophy

#### Department of Psychology

- 2001.381 \*Readings in Psychology
- 2001.385 \*Seminar in Psychology
- 2001.491 \*Independent Investigation in Psychology
- 2001.499 \*Senior Thesis in Psychology

#### Department of Sociology and Anthropology

- 2208.470-479 \*Special Topics in Sociology
- 2208.485 Seminar in Sociology
- 2208.495 \*Independent Research
- 2202.374 Religion, Magic and Witchcraft
- 2202.470-479 \*Special Topics in Anthropology
- 2202.495 \*Independent Research

### WOMEN'S STUDIES

The Women's Studies concentration within the General Studies major is an interdisciplinary program which offers students the opportunity to study the particular nature and role of women as individuals and as members of society. The concentration consists of nine hours in a core curriculum of three interdisciplinary courses: 4901.231 Women in Perspective, 4901.331 Women in Society, and 4901.332 Women in Art and Literature, plus a minimum of eighteen hours selected from department courses in Women's Studies. 4901.231 Women in Perspective is strongly recommended as preparation for any upper division work in Women's Studies. Each program is individually tailored to the needs and interests of the student. Students must consult with a Women's Studies faculty advisor to plan their program. The student is reminded that a total of forty-five upper division hours is requested for the completion of a General Studies Major.

The Women's Studies concentration is administered by a committee of faculty and students. The faculty members on the committee will serve as advisors to students majoring in the program:

Sara Coulter, English  
Jo Ann Fuchs, Philosophy  
Elaine Hedges, English  
Judy Markowitz, Women's Studies  
Joan Rabin, Psychology  
Fred Rivers, History  
Jane Sheets, Modern Languages  
Elaine Solez, English  
John Toland, Sociology  
Jan Wilkots, English

The following interdisciplinary and departmental Women's Studies courses are currently in the curriculum.

More courses are under development. The departmental courses can be taken as electives for departmental credit and/or applied to the thematic concentration in Women's Studies.

#### Interdisciplinary General Studies

- 4901.231 Women in Perspective
- 4901.331 Women in Society
- 4901.332 Women in Art and Literature

#### Department of Art

- 1001.216 The Image of Women in Art

#### Department of English

- 1501.474 Topics in Women's Studies: Women Writers
- 1501.474 Topics in Women's Studies: Women and Drama

#### Department of History

- 2205.491 Biographical Studies in History: British and American Women
- 2205.492 Historical Themes: African American Women in History
- 2205.492 Historical Themes: The Place of Women in European History

#### Department of Modern Languages

- 1102.437 Women in Foreign Literatures in Translation: Frenchwomen, Myth and Reality
- 1102.437 Women in Foreign Literatures in Translation: European Fiction by Women

#### Department of Philosophy

- 1509.331 Concepts of Woman: An Historical Approach
- 1509.44 Philosophical Systems: Simone de Beauvoir
- 1509.44 Philosophical Systems: Twentieth Century Women Philosophers

#### Department of Physical Education

- 0835.441 The Sportswoman in American Society

#### Department of Psychology

- 2001.323 Psychology of Women
- 4901.231 (33.231) WOMEN IN PERSPECTIVE (3) A survey of the past, present, and possible future place of women as individuals and as members of society.
- 4901.331 (33.331) WOMEN IN SOCIETY (3) An examination of the distinctive role and contribution of women in society from the perspectives of several disciplines, primarily the social sciences. Prerequisites: 6 hours in the social sciences.
- 4901.332 (33.332) WOMEN IN ART AND LITERATURE (3) Study of selected art and literature by women with emphasis on the nature of the contributions of women and the conditions for creativity. Prerequisites: 6 hours in art and/or literature.
- 4901.491 (33.491) DIRECTED READING IN WOMEN'S STUDIES (1-4) Independent reading in Women's Studies with emphasis on interdisciplinary relationships. Topic selected by student in consultation with the instructor. Prerequisites: 15 hours in interdisciplinary or departmental Women's Studies courses; minimum 3.00 average in Women's Studies; consent of instructor and coordinator of Women's Studies. May be repeated for credit.
- 4901.496 (33.496) PRACTICUM IN WOMEN'S STUDIES (3) Field placement for students in agencies or organizations working on projects which serve women. Prerequisite: Upper level or graduate standing; 4901.231; one other Women's Studies course and consent of instructor.

THE MINOR IN WOMEN'S STUDIES

In addition to the Major in Women's Studies a minor is available in this area. A minor is, in fact, the way in which many students are using our courses and the way in which we are advising some students to use our courses. That is, many students will wish to major in a traditional subject (History, English, Sociology), but want to take special work in women within that subject, to which end they take many Women's Studies courses. Some students plan to do graduate work in a traditional discipline, with emphasis on women within it.

Program Requirements

- 4901.231 Women in Perspective (3 credits)  
plus  
15 hours in other departmental or General Studies Women's Studies courses, at least 12 hours of which shall be on the 300-400 course level.

SECOND DEGREE PROGRAM FOR WOMEN IN MANAGEMENT

The second degree program for Women in Management is specifically designed for those women who aspire to start or further a management career.

Many women in industry possess the interest and ability to assume managerial leadership positions but their undergraduate degree did not provide them with the specific skills and knowledge necessary for advancement in the business world.

This new second degree program will provide women with a course of study which is specifically tailored to the individual need of each student.

Professional counselling by participating faculty is available.

Advisory committee:

- Sara Coulter
- Nancy Goldman
- Elaine Hedges
- Elaine Solez
- Betty Strauss
- Ria Frijters, Ex Officio

Program Requirements

Business Administration

21 hours of Business Administration courses specifically designed to meet the career needs of the student including Seminar for Women Managers.

English

- 1501.333 Writing for Business and Industry
- 1501.334 Advanced Informational Writing

Psychology\*

- 2001.409 Organizational Psychology
- 2001.209 Consumer Behavior
- 2001.330 Psychology of Individual Differences
- 2001.111 Behavioral Statistics
- 2001.323 Psychology of Women

Sociology\*

- 2208.231 Social Problems
- 2208.341 Social Stratification
- 2208.331 Organizations

Women's Studies\*

- 4901.231 Women in Perspective
- 4901.331 Women in Society
- 2207.472 Women and the Law

Speech\*

- 0605.315 Business and Professional Speech

Economics\*

- 2204.101, 102 Economic Principles I and II
- 2204.323 Money and Banking
- Other upper level Economics courses depending on need or interest of student
- Total required course credits — 45 (only six hours are allowed for lower division courses)

\* Four out of the above five disciplines must be represented in the degree program.

GENERAL STUDIES COURSES (4901)

- 4901.101 (33.101) PREPARATION FOR COLLEGE WRITING (3) Review of principles of mechanics, sentence construction, and paragraph development. The course will be a prerequisite to 1501.102 Freshman Composition, required for those students whose entering scores indicate they need additional preparation to meet the standards of College-level expository writing. Prerequisite: Department placement.
- 4901.103 (33.103) INTRODUCTION TO HUMAN RELATIONS (3) An introductory interdisciplinary course in which emphasis will be placed on students' self-perceptions of their culture and their ability to relate effectively to other culture and life styles in America. The human relations skills thus acquired will be enhanced through practical applications concentrating on issues such as ethnicity, problems of minority groups and the status of women.
- 4901.107-108 (33.107-108) PORTUGUESE ELEMENTS I, II (4, 4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.
- 4901.110 (33.110) EXPLORATIONS IN COMMUNICATION SKILLS (4) A course designed to enhance the student's ability in the four communications skills — reading, writing, listening, and speaking; to enable the student to understand the interdependency of these skills and to recognize them as the foundation for success in other disciplines.
- 4901.196 (33.196) SELECTED TOPICS IN GENERAL STUDIES (1-3) Study of a topic in a specialized area to be selected by the instructor and student. Each topic must be approved by the Curriculum Committee. Prerequisites: Permission of the Associate Dean.
- 4901.198 (33.198) PHILOSOPHY OF GENERAL STUDIES (3) An introduction to the concepts of a liberal education through readings, lectures, and discussions. Prerequisites: Must be taken simultaneously with 4901.199.
- 4901.199 (33.199) PRACTICUM IN GENERAL STUDIES (3) Life experiences in the major areas of a liberal education— museums, theatre, historical landmarks, concerts, etc. Prerequisites: Must be taken simultaneously with 4901.198.
- 4901.207-208 (33.207-208) PORTUGUESE INTERMEDIATE I, II (4, 3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisites: 4901.107-108 or equivalent.
- 4901.211 (33.211) EDITORIAL CARTOONING AND ITS PRACTICES

**TITIONERS: JOURNALISM'S POLITICAL GADFLIES (2)** This series of lectures by the former editorial cartoonist for the Baltimore News-American will look at the most lively aspect of the daily newspaper's editorial page. Included are a review of the history of editorial cartooning, an analysis of the works of some of today's most prominent cartoonists and insights into how editorial cartoons are created. No drawing or artistic talent will be required.

**4901.501 (33.501) INTRODUCTORY SEMINAR IN GENERAL STUDIES (3)** For graduate students in the Master of Arts in General Studies degree program. A seminar course in which disciplines are examined from philosophical, methodological, utilitarian and other viewpoints. Each participant prepares for this purpose an analysis and description of his/her undergraduate major discipline or area of concentration.



# Biological Sciences

**Professors:** ERICKSON, KUNDIG, MUMA, ODELL

**Associate Professors:** ANDERSON, DAIHL, HILTON  
(Chairperson), MORSINK, SCARBROUGH, SHOEMAKER,  
WALKER, WINDLER

**Assistant Professors:** AKINYEMI, BUCHANAN, CREIGHTON,  
EWIG, FORESTER, HENRIKSON, JOHNSON, LAINHART,  
LAUTERBACH, LEWIS, MECHLING, SCHUETZ, SMOES

Students interested in biologically oriented careers in teaching, fundamental and industrial research, medicine, dentistry, pharmacy, veterinary science, oceanography, conservation and allied fields should major in this department. Staff members will aid each student in designing a program to meet his special needs.

## Biology Major

The requirements for the major are: Biology 0401.101, 0401.105, 0401.109, 0401.331, 0401.351, 0401.401 and eight credit hours from other courses offered by the department; Chemistry 1905.101, 1905.102, and 1905.330 or both 1905.331 and 1905.332; Physics 1902.211 and 1902.212 and Mathematics 1701.115. At least 15 hours in Biology must be taken while in residence at Towson State College. Students are urged to take General Chemistry during their freshman year, Organic Chemistry in their sophomore year, and Physics as soon as possible.

Biology 0401.301, 0401.303 and 0401.387 may not be included in the basic 32 hours required for the major without permission of the department chairman. Biology majors may substitute two semesters of Human Anatomy and Physiology (0401.113, 0401.114) for Functional Anatomy of Vertebrates (0401.109) with the following stipulations: both 0401.113 and 0401.114 must be taken to receive credit for either semester and only four credits (of the total eight may be applied to the biology major. A maximum of four credit hours in any combination of 0401.195, 0401.295, 0401.395, 0401.481, 0401.491 and 0401.495 may be applied to the thirty-two hours required for the major.

**Honors Program:** To graduate with honors in biology a student must complete Biology 0401.486 and 0401.498-0401.499 to be taken in consecutive semesters of the senior year. The research thesis must be presented in an oral defense before the Honors Research Committee. An oral presentation open to the public is also required. In addition, a minimum of three credit hours must be selected from 0401.491 and/or 0401.481 in the junior year. For eligibility and general information consult the College Honors Program description.

## Medical Technology

This program is listed under Health Science.

## Natural Science Major

This program is designed to give a broader view of the sciences than is obtained in a traditional undergraduate major in a single science. This is done at the sacrifice of depth and students should therefore be aware that this major may not prepare them for graduate work in a single science.

Prospective secondary or middle school teachers of general science should consider this major. These students should plan their programs to meet the certification requirements of the area in which they plan to teach.

Students who intend to be natural science majors should see D. Greene early in their education at this college.

Natural Science Major (54 credits)

Required courses (30 credits):

0401.101 Contemporary General Biology (4)

1905.101-102 General Chemistry I, II (4, 4)

1902.211-212 General Physics I, II (4, 4)

1901.121 Physical Geology (4)

1901.161 General Astronomy I (3)

1701.115 Mathematics I (3)

One from each of the following groups (9-12 credits):

0401.105 or General Botany, or (4)

0401.109 Functional Anatomy of Vertebrates (4)

1905.210 or Principles and Methods of Chemical Analysis, or (4)

1905.211 or Quantitative Analytical Chemistry, or (4)  
1905.330 Essentials of Organic Chemistry (5)

0401.295 or Course Research, or (1)

0401.491 or Independent Research in Biology, or (2-3)  
1901.401 Advanced Laboratory in Physical Science (2)

Electives (12-15 credits):

One field course is required.

Other electives from the biological and physical sciences (upper division courses recommended).

## Graduate Program

The course of study leading to the Master of Science in Biology is designed to provide greater knowledge and understanding of biology and to help the student develop a proficiency in independent thought, inquiry and research. The student may pursue either the Thesis Program (30 credits and a thesis) or the Non-Thesis Program (36 credits). Detailed information regarding both programs is given in the Graduate Studies Bulletin.

## BIOLOGY COURSES (0401)

NOTE: 0401.101 is a prerequisite for all other biology courses. For details on exemption from this required course, see the Academic Regulations section of this bulletin.

## Lower Division — Undergraduate

0401.101 (14.101) CONTEMPORARY GENERAL BIOLOGY (4)

The basic biological principles common to plants and animals. Topics include cell structure and process (both physical and biochemical), mitosis, gametogenesis, aspects of embryology, genetics, evolution and ecology. Average of two laboratory hours per week. Each semester.

0401.105 (14.105) GENERAL BOTANY (4) Morphology, anatomy, and physiology explored through the study of selected plant types. Average of two laboratory hours per week. Each semester.

0401.107-108 (14.107-108) FUNCTIONAL HUMAN ANATOMY I, II (4, 4) A basic anatomical and physiological approach to all systems of the human body with an emphasis on normal and discussions of clinical abnormalities. Designed to be taken concurrently with clinical hospital experience. Three hours lecture, two hours laboratory per week. Both semesters must be completed to receive credit for either semester. Open to Maryland General Hospital nursing students only. Prerequisite: Acceptance to Maryland General Hospital nursing program.

0401.109 (14.109) FUNCTIONAL ANATOMY OF VERTEBRATES (4) Organ systems of selected vertebrate types with emphasis on basic physiological processes. Average

of two hours per week in laboratory work. Students who have taken 0401.113-114 Human Anatomy and Physiology may not take this course. Each semester.

0401.113-114 HUMAN ANATOMY AND PHYSIOLOGY I, II (4, 4) Skeletal, muscular, nervous, respiratory, circulatory, digestive, excretory, endocrine, and reproductive systems. Average of two laboratory hours per week. In order to receive credit, both semesters must be completed. Courses must be taken in sequence except with special permission of the instructor. Students who have completed 0401.109 may not take this course without permission of the Department Chairperson. 0401.113 each semester, 0401.114 each semester. 0401.113 is prerequisite for 0401.114.

0401.195 [14.195] COURSE RESEARCH (1) Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester.

0401.207 [14.207] INTRODUCTION TO PALEONTOLOGY (4) Examination of major forms of life with the emphasis on appearances, diversification, and extinctions during the different geologic periods. Spring, odd years.

0401.221 [14.221] INTRODUCTION TO ANIMAL PARASITOLOGY (4) A survey of the major groups of animal parasites and their vectors. Emphasis will be placed on the more important human parasites. Prerequisite: 0401.109 or consent of instructor. Spring, even years.

0401.235 [14.235] ECONOMIC BOTANY (3) A study of the plants and plant products which provide man with various luxuries and necessities. Emphasis will be on higher plants commercially important in North America. Prerequisite: 0401.105 or consent of instructor. Fall, odd years.

0401.255 [14.255] HUMAN SEXUAL BIOLOGY (3) Basic structure and function of the human reproductive system. Physiology of gametogenesis, fertilization and contraception, gestation, parturition, lactation and the biological aspect of sexual behavior.

0401.295 [14.295] COURSE RESEARCH (1) Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester.

## Upper Division — Undergraduate and Graduate

0401.301 [14.301] FIELD NATURAL SCIENCE (4) A study of various environments to determine their physical and biological components and to understand the relationship of these forms to one another and to man. Emphasis is on field observation. An average of three Laboratory hours per week. Once each year. May not be used toward M.S. degree in Biology.

0401.303 [14.303] LIFE SCIENCE IN THE ELEMENTARY SCHOOL (3) Emphases placed on the conceptual approach to science teaching, the modes of scientific inquiry, and the utilization of living organisms in the classroom. Prerequisite: 0401.101. Each semester. May not be used toward M.S. degree in Biology.

0401.310 [14.310] ENVIRONMENTAL CONSERVATION (4) Basic conservation practices and problems. Soil, water, forest, and wildlife resources with emphasis on interrelationships. Specialists in various phases of local, state, and federal conservation work conduct or assist in numerous field trips. Average of three laboratory hours per week. Once each year.

0401.315 [14.315] MEDICAL MICROBIOLOGY (4) General microbiological techniques. Pathogenesis of bacterial, viral, rickettsial and fungal diseases with emphasis on medically important bacteria. Recommended for students pursuing a career in the medical sciences. Prerequisites:

CHEM 1905.101, 1905.102. The latter may be taken concurrently. Spring, each year. Either this course or 0401.318, but not both courses, may count toward M.S. degree in Biology.

0401.318 [14.318] MICROBIOLOGY (4) A course investigating the basic principles of such groups of organisms as bacteria, protozoa, and lower plant forms, with emphasis on bacteria. Average of three laboratory hours per week. Prerequisites: CHEM 1905.101, 1905.102. The latter may be taken concurrently. Fall, each year. Either this course, or 0401.315, but not both courses, may count toward M.S. degree in Biology.

0401.322 [14.322] MICROTECHNIQUE (3) Techniques used in preparation of plant and animal tissues for histological examination. Average of two laboratory hours per week. Prerequisites: CHEM 1905.101, 1905.102. Spring, even years.

0401.331 [14.331] FIELD AND SYSTEMATIC BOTANY (4) Plant kingdom centered around taxonomy and ecology. Methods of collection, identification, and preservation will be developed in the field and laboratory. Average of three laboratory hours per week. Prerequisite: 0401.105 or consent of instructor. Each semester. May not be used toward M.S. degree in Biology.

0401.341 [14.341] PHYCOLOGY (4) The systematics, structure, ecology, physiology, and life histories of algae. Laboratory will include methods of collection, culture, and experimental study of selected species. Prerequisite: 0401.105. Fall, even years.

0401.345 [14.345] MYCOLOGY (4) An introductory study of the morphology, classification, life histories, and economic applications of the fungi. Average of three laboratory hours per week. Prerequisite: 0401.105. Fall, even years.

0401.351 [14.351] FIELD AND SYSTEMATIC VERTEBRATE ZOOLOGY (4) Evolution, distribution, and definitive features of each class are studied comparatively. Extensive field and laboratory work deals with morphologic, taxonomic, ecological, and behavioral features of selected vertebrate groups and species. Average of three laboratory hours per week. Each semester. May not be used toward M.S. degree in Biology.

0401.353 [14.353] INVERTEBRATE ZOOLOGY (4) Aquatic and terrestrial species of phyla from the Protozoa through the Echinodermata with special emphasis on local forms. Economic, ecological, and taxonomic considerations. Average of three laboratory hours per week. Fall, each year.

0401.360 [14.360] HISTOLOGY (3) Tissues of the vertebrate body. Average of two laboratory hours per week. Prerequisite: 0401.109. Spring, odd years.

0401.367 [14.367] GENERAL ENDOCRINOLOGY (3) Endocrine mechanisms regulating homeostasis and functional integrity of animals, with emphasis on vertebrates. Prerequisites: 0401.109 or equivalent, CHEM 1905.101, 1905.102. Fall, even years.

0401.368 [14.368] EXPERIMENTAL ENDOCRINOLOGY (2) An introduction to techniques and procedures commonly employed in endocrine research. Prerequisite: 0401.367. Spring, even year.

0401.371 [14.371] ANIMAL BEHAVIOR (4) The classification and evolutionary aspects of behavior with emphasis on behavioral mechanisms. Average of three laboratory hours per week. Spring, odd years.

0401.381 [14.381] BIOLOGICAL LITERATURE (2) Familiarization with the literature of biology through the preparation of papers requiring a knowledge of techniques for exploring the literature. Two one-hour lectures per week. Prerequisite: at least 6 hours of biology. Fall, each year. May not be used toward M.S. degree in Biology.

- 0401.383 (14.383) HISTORY OF BIOLOGICAL CONCEPTS (3) Historical development of biological concepts through the readings of classical and contemporary writings. Fall, odd years. May not be used toward M.S. degree in Biology.
- 0401.385 (14.385) SELECTED GENERAL PRINCIPLES IN BIOLOGY (3) Current directions of biological investigations will be discussed together with a treatment of recent contributions to biological areas and principles. Sufficient background will be given to provide coherence and understanding. Three one-hour lectures. Prerequisite: consent of instructor. Evening and summer programs. Not for graduate credit, but for recertification.
- 0401.387 (14.387) BIOLOGY IN SOCIETY (3) Considerations given to the biological aspects of the environment; its concepts and problems and their effects upon the population. Once each year. May not be used toward M.S. degree in Biology.
- 0401.395 (14.395) COURSE RESEARCH (1) Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester. May not be used toward M.S. degree in Biology.
- 0401.401 (14.401) GENETICS (4) Heredity and variation, and their application to evolution and development. Gene action at the morphological, physiological and biochemical levels. Laboratory work entails use of *Drosophila*, corn, and *Neurospora* in the application of genetic principles. Average of three laboratory hours per week. Prerequisites: CHEM 1905.101, 1905.102 and MATH 1701.115 or consent of instructor. Each semester. May not be used toward M.S. degree in Biology.
- 0401.402 (14.402) GENERAL ECOLOGY (4) Basic principles of ecology. Interrelationships between animals and plants and their natural environments, emphasizing the specific biomes available for study in Maryland. Individual projects will be required. An average of two laboratory hours per week. Spring, odd years.
- 0401.403 (14.403) ADVANCED GENETICS (3) Emphasis on the molecular basis of gene action. Discussion of current work and methods related to the problem of gene structure, function, and mutation including the translation and regulation of genetic information. Prerequisite: 0401.401 or its equivalent or consent of instructor. Spring, odd years.
- 0401.404 (14.404) ECOLOGICAL TECHNIQUES (3) A series of lectures and readings on standard investigative techniques employed by ecologists in the various specialty fields. An individual investigation, laboratory or field, using appropriate equipment, is required. Prerequisite: 0401.402 or its course equivalent. Fall, even years.
- 0401.406 (14.406) LIMNOLOGY (4) A study of inland waters. The physical, chemical, and biological factors that affect fresh-water organisms, and some of the standard methods used to analyze these factors. Average of two laboratory hours per week. Prerequisites: CHEM 1905.101, 1905.102, PHYS 1902.211, 1902.212. Spring, even years.
- 0401.408 (14.408) CELL BIOLOGY (4) A study of the molecular and morphological organization of the cell in relationship to functions of the cell's organelles. An average of three laboratory hours per week. Prerequisites: 0401.109, CHEM 1905.330 or 1905.331. Spring, even years.
- 0401.411 (14.411) WILDLIFE BIOLOGY (4) Important wildlife species with emphasis on aspects of research and management. Specific techniques and problems are studied in the field. Average of three hours per week in laboratory and field work. Prerequisite: Permission of instructor. Fall, even years.
- 0401.421 (14.421) IMMUNOLOGY (4) Fundamental principles of immunology with emphasis on the nature of antibodies and antigens, blood groups, antibody — antigen reactions, hypersensitivity, autoimmunization, tumor immunology, artificial grafting and the preparation of vaccines. Prerequisites: 0401.315 or 0401.318 or consent of instructor. Fall, odd years.
- 0401.429 (14.429) BIOANALYSIS (3) Microscopic and biochemical methods used in determining major components and important contaminants of feeds, spices, stabilizers, adhesives, bakery materials, fats and oils, meat products, crystal mixtures, dairy products, etc. An average of two hours per week in laboratory and field work. Prerequisite: 0401.105, CHEM 1905.101, 1905.102, or permission of instructor. Evening and summer programs.
- 0401.431 (14.431) HORTICULTURE (4) Basic principles and techniques of plant culture and their application to developing desirable plantings on home grounds or in public places with examples of appropriate types of plants for specific situations. Average of three laboratory hours per week. Prerequisite: 0401.105. Spring, even years. May be taken for Master's Degree credit only with the approval of the appropriate graduate coordinator.
- 0401.432 (14.432) VASCULAR PLANT TAXONOMY (4) A study of the history and principles of vascular plant systematics with laboratory time devoted to collection and identification of plants in the local flora. An average of two laboratory hours per week. Prerequisites: 0401.105, 0401.331 or consent of instructor. Fall, even years.
- 0401.433 (14.433) PLANT SPECIATION (3) A study of such speciation phenomena as race isolation, hybridity, polyploidy, pomixis, and self-compatibility as they influence the evolution of new populations. Prerequisite: 0401.331. Spring, even years.
- 0401.436 (14.436) PLANT PHYSIOLOGY (4) Life functions of plants as related to structure at all levels: cells, organs, and the complete organism. Consideration of the interaction of environmental and genetic factors on plant metabolism. Average of three laboratory hours per week. Prerequisites: 0401.105, CHEM 1905.101, 1905.102, CHEM 1905.331 recommended. Spring, odd years.
- 0401.439 (14.439) PLANT ANATOMY (4) Origin and development of organs and tissue systems in vascular plants. Average of three laboratory hours per week. Prerequisite: 0401.105. Spring, even years.
- 0401.441 (14.441) PLANT PATHOLOGY (4) A study of plant diseases, their symptoms, causal agents, etiology, epidemiology, prevention, and control. Average of three laboratory hours per week. Prerequisite: 0401.105. Fall, odd years.
- 0401.456 (14.456) ORNITHOLOGY (4) Lecture, laboratory and field course in bird identification, structure, behavior, ecology, and general economic relationships. Emphasis is on birds of the Baltimore area. A banding station is operated in conjunction with the course. Occasional field trips. Average of two laboratory hours per week. Spring, even years.
- 0401.458 (14.458) MAMMALOLOGY (4) The evolution, comparative morphology, systematics, and distribution of mammals. Representative life histories are considered. Average of three laboratory hours per week. Prerequisite: permission of instructor. Spring, odd years.
- 0401.461 (14.461) ENTOMOLOGY (4) Laboratory and field course in insects. Identification and recognition of the more common families and orders, and a study of their structure, behavior, ecology, economic importance, and control. Average of three laboratory hours per week. Fall, even years.
- 0401.463 (14.463) ANIMAL EMBRYOLOGY (4) Developmental anatomy and the underlying principles involved in devel-

- opment. This last area will be approached from an experimental base. Average of three laboratory hours per week. Prerequisite: 0401.109. Fall, odd years.
- 0401.465 (14.465) ANIMAL PHYSIOLOGY (4) Functioning of animal organ systems, with emphasis on the vertebrate body. Average of three laboratory hours per week. Prerequisites: 0401.109. CHEM 1405.101, 1405.102. Fall, odd years.
- 0401.481 (14.481) DIRECTED READING IN BIOLOGY (1-3) Independent reading in an area selected by the student in consultation with the instructor. Prerequisite: a minimum of 10 hours in biology. Each semester. May not be used toward M.S. degree in Biology.
- 0401.486 (14.486) SEMINAR: SPECIAL TOPICS IN BIOLOGY (1-2) Study and discussion of topics in a specialized area to be selected by instructor. Areas will vary from semester to semester. Prerequisites: a minimum of 10 semester hours in biology or consent of instructor. (Consent of instructor is not considered necessary if student has had 10 semester hours in biology.) Spring, each year. May not be used toward M.S. degree in Biology.
- 0401.491 (14.491) INDEPENDENT RESEARCH IN BIOLOGY (2-3) Independent investigation of a problem under the supervision of a staff member culminating in a written presentation. Prerequisite: a minimum of 15 semester hours in biology and consent of instructor. Each semester. May not be used toward M.S. degree in Biology.
- 0401.494 (14.494) TRAVEL STUDY (1-3) Detailed investigation of field oriented problems in biology away from the Towson State campus. Locations and topics to be selected by the department and instructors sponsoring the program. Prerequisite: consent of instructor. Each year.
- 0401.495 (14.495) COURSE RESEARCH (1) Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester. May not be used toward M.S. degree in Biology.
- 0401.498 (14.498) HONORS RESEARCH IN BIOLOGY (2) Individual research of an extensive nature under the direction of a staff member, culminating in an honors thesis. Credit for 0401.498 not awarded until 0401.499 is successfully completed. Prerequisites: open only to advanced honors candidates and by consent of instructor. Each semester. May not be used toward M.S. degree in Biology.
- 0401.499 (14.499) SENIOR THESIS IN BIOLOGY (2) Writing of an honors thesis based on individual research done under the direction of a staff member. Prerequisites: open only to advanced honors candidates and by consent of instructor. Each semester. May not be used toward M.S. degree in Biology.
- 0401.501 (14.501) PHYSIOLOGICAL ANIMAL ECOLOGY (4) A study of the physiological responses of animals to varying ecological conditions. Prerequisites: 0401.402, 0401.465. Fall, even years.
- 0401.509 (14.509) AQUATIC BIOLOGY (4) A study of freshwater and brackish water plants and animals of the local area with a field emphasis. Several representative habitats are considered comparatively, using various methods of collecting and identifying species of the fauna and flora. Prerequisites: 0401.331, 0401.351, 0401.353 or consent of instructor. Fall, odd years.
- 0401.533 (14.533) PLANT MORPHOGENESIS (4) The morphological growth and development of plants in response to natural and artificial stimuli at the cellular, tissue, and organ level. Prerequisite: 0401.439. Evening and Summer programs.
- 0401.535 (14.535) ENVIRONMENTAL PLANT PHYSIOLOGY (3) Physiological interactions between plants and environments at the organism level. Exchanges of physical and chemical factors such as energy, gases, water, pesticides, air and water pollutants, fertilizers, lime, radioactive materials. Prerequisites: 0401.436 or consent of instructor. Spring, even years.
- 0401.553 (14.553) BIOLOGY OF TERRESTRIAL AND FRESH-WATER INVERTEBRATES (4) An advanced study of invertebrates including classification, physiology and various ecological parameters influencing distribution of local fauna in freshwater and terrestrial habitats. Parasites and terrestrial insects are excluded. Prerequisites: 0401.353 or consent of instructor. Spring, odd years.
- 0401.561 (14.561) INSECT ECOLOGY (4) A study of insect communities and populations emphasizing conditions of the environment that favor abundance of insects in various habitats. Field work involves examination of various aquatic and terrestrial habitats. Prerequisites: 0401.461, 0401.353 recommended. Spring, even years.
- 0401.581 (14.581) RECENT ADVANCES IN BIOLOGY (4) A study of current factual and technological advances in the five following areas: Botany, Zoology, Ecology, Genetics and Evolution, Cellular and Molecular Biology. Completion of this course with a grade of B or better fulfills the departmental advancement to candidacy examination requirement. Prerequisites: nine graduate credits in biology. Fall, each year.
- 0401.601 (14.601) NON-THESIS GRADUATE RESEARCH (3) An individual research project is carried out under the guidance of a graduate faculty advisor. Credit granted only after research paper has been accepted by the student's research committee. Prerequisite: Successful completion of all requirements for the Advancement to Candidacy Examination in Biology and M.S. program and consent of instructor. Evening and Summer.
- 0401.697 (14.697) GRADUATE SEMINAR (1) Student reports and discussion dealing with biological research. An outline of the seminar and a bibliography are required. A maximum of one credit allowable for M.S. degree in Biology. Evening and Summer programs.
- 0401.699 (14.699) THESIS (6) An original investigation to be pursued under the direction of one or more faculty members. Credit granted only after thesis has been accepted by the student's thesis committee. Prerequisite: consent of instructor. Evening and Summer programs.

## Graduate Division

- 0401.501 (14.501) CURRENT TOPICS IN BIOLOGY (3) Discussion of current topics in a specific area of biology. The area will vary each time the course is offered. A maximum of three credits allowable for M.S. degree in Biology. Prerequisites: A suitable background in the area emphasized. Evening and summer programs.
- 0401.505 (14.505) PROBLEMS IN BIOLOGY (1-3) Laboratory or literature research on a particular problem of interest to the student that does not pertain to his thesis. Regular conferences with the instructor are required. A preliminary paper is submitted for discussion, suggestions and corrections. The final paper should incorporate the necessary changes. Credits to be arranged by consultation with the instructor. A maximum of three credits allowable for M.S. degree in Biology. Prerequisite: consent of instructor. Evening and summer programs.

## SCIENCE EDUCATION COURSES (SCIE)

The following courses are staffed by the Departments of Biological Sciences and Physics and are offered in cooperation with the Education Department. Descriptions of these courses are included under Education Department listings.



EDUC 0823.341 EARLY CHILDHOOD EDUCATION PROFESSIONAL BLOCK I—SCIENCE  
 EDUC 0803.398 STUDENT TEACHING IN THE SECONDARY SCHOOL—BIOLOGY  
 EDUC 0803.398 STUDENT TEACHING IN THE SECONDARY SCHOOL—SCIENCE  
 SCIE 0834.301 FIELD COURSE IN SECONDARY TEACHING METHODS  
 SCIE 0834.371 TEACHING SCIENCE IN EARLY CHILDHOOD

SCIE 0834.375 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL  
 SCIE 0834.379 TEACHING SCIENCE IN THE SECONDARY SCHOOL  
 SCIE 0834.488 (SUMMERS) AEROSPACE EDUCATION WORKSHOP  
 SCIE 0834.585 SEMINAR IN ELEMENTARY SCHOOL SCIENCE  
 BIOL 0401.303 LIFE SCIENCE FOR THE ELEMENTARY TEACHER



# Business Administration

*Professor:* CHANDLER, HOLT

*Associate Professor:* BROWN (Chairperson), CASTALDI

*Assistant Professors:* CAMPBELL, GOLDMAN,

SEGANISH (Business Law Coordinator), HAIGHT

*Visiting Assistant Professor:* STRAUSS

(Business Internship Coordinator)

*Instructors:* BUCHOFF (Program Coordinator for Accounting),

HANNON, MACCHIETTE, NEVILLE, PERRIER

The Business Administration program seeks to develop personal and professional skills related to business and management. It provides training for careers in business or government as well as preparation for graduate study in business or management. The program operates in a Liberal Arts framework and emphasizes the oral and written communication skills needed for a career in corporations and other large organizations such as the Federal and State Governments, school systems, and hospitals.

The Bachelor of Arts Degree may be earned by adding a foreign language to the major college requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that these are in addition to the General College Requirements.

## BACHELORS DEGREE... BUSINESS ADMINISTRATION

### Major Requirements — total 45-51

#### I. Business Administration Core Courses (30 credits)

2204.101	Economic Principles and Problems I	(3)_____
2204.102	Economic Principles and Problems II	(3)_____
0506.201	Accounting Principles I	(3)_____
0506.202	Accounting Principles II	(3)_____
0506.325	Business Law I	(3)_____
0506.331	Financial Management	(3)_____
0506.341	Marketing Management	(3)_____

One of the following:

1701.231	Basic Statistics	(3)_____
2204.301	Fundamental Statistics for Economics	(3)_____

One of the following:

0701.235	Fundamentals of Computing	(3)_____
0701.212	Cobol Programming (Prereq. Acct'g I, Intro Data Processing)	(3)_____

One of the following:

1501.333	Technical Writing (prerequisite, 2 English courses)	(3)_____
1501.331	Advanced Composition (prerequisite, 2 English courses)	(3)_____
0605.355	Newsriting (special Mass Permit only)	(3)_____
0605.356	Feature Writing (special Mass Com Permit)	(3)_____

#### II. Area of Concentration (9-15 credits over and above BUAD core course requirement)

Each area of concentration is designed to provide depth and high levels of skill in specific functional areas. Each

business major must complete an area of concentration prior to graduation. The areas of concentration within the Business Administration major are:

**Accounting** — (15 hours required) Designed for students selecting careers in corporation accounting or planning to take the exam to be a Certified Public Accountant. Courses in this area are: Intermediate Accounting I and II; Cost Accounting; Tax Accounting I and II; Advanced Accounting I and II and Auditing.

**Finance** — (9 hours required) Designed for students seeking careers in banking or corporate finance. Courses in this area are: Principles of Investments and Security Analysis; International Finance; Advanced Corporate Finance; Money and Banking; and Price Theory.

**Marketing** — (9 hours required) Designed for students planning a selling, advertising, distribution or marketing career. Courses in this area are: Transportation Management; Physical Distribution Management; Advertising Management; Marketing Research; and International Marketing.

**Personnel** — (9 hours required) Designed for students selecting a personnel or management career. Courses in this area are: Personnel Management; Labor Economics; Industrial Relations; Grievances and Arbitration, and Public Administration.

**International Business** — (9 hours required) Designed for students interested in learning the nature of international business and management. Courses in this area are: Introduction to International Business; International Finance; International Marketing; and International Economics.

#### Accounting — (15 hours required)

_____	( )_____
_____	( )_____
_____	( )_____
_____	( )_____
_____	( )_____

#### Finance — (9 hours required)

_____	( )_____
_____	( )_____
_____	( )_____

#### Marketing — (9 hours required)

_____	( )_____
_____	( )_____
_____	( )_____

#### Personnel — (9 hours required)

_____	( )_____
_____	( )_____
_____	( )_____

#### International Business — (9 hours required)

_____	( )_____
_____	( )_____
_____	( )_____

#### III. Upper Division Electives (6 credits)

The student must complete six additional hours of Business Administration upper-division courses: (upper division courses carry 300 or 400 level course numbers.)

_____	( )_____
_____	( )_____

Additional electives recommended to business majors are: MASS COMMUNICATIONS (Communication Process, Introduction to Advertising, Business and Professional Speech, Public Opinion and the Press, Publicity and Public Relations, Mass Media in Modern Society); ECONOMICS (Intermediate Price Theory, Government and Economic Life, Money and Banking, Macroeconomic Theory, Business Cycles and Forecasting); POLITICAL SCIENCE (Public Administration, State Government, Urban Government and Politics); MATHEMATICS (Math of Finance, Calculus); PSYCHOLOGY (Industrial Psychology, Group Dynamics, Applied Psychology); SOCIOLOGY (Organizations).

**Transfer Credits**

Credit towards the business major will be given for approved courses taken at other schools. Students planning to transfer from junior or community colleges are encouraged to take six hours of accounting as part of their first two years of college. Six hours of economics may also be taken. Students are encouraged to take finance and marketing after transferring to Towson State College. Transfer students must complete, with a "C" or better, at least 1 hours of upper level Business Administration credits with a pre-fix of 0506.300 or 0506.400 at Towson State College in order to qualify for the Business Major.

Students currently enrolled at Towson State College may be given credit for courses taken at other accredited four-year colleges. Approval must be gained in advance.

**Special Programs of Interest**

(Consult your advisor. Advisor may be obtained by individual consultation with the faculty member of your choice.)

1. Business Internship Program (Open to all majors)
2. Directed Independent Study Program
3. "Credit for Prior Experience" Program
4. "American Institute of Banking Credit by Experience" Program
5. Business Clubs (American Marketing Association, American Accounting Association, American Society of Personnel Administrators)

**American Institute of Banking Credit By Experience Program**

For selected courses, Towson State College will accept a maximum of six courses taken in residency through the Baltimore Chapter of the American Institute of Banking. Each three-credit course will be accepted with examination as two credits in business administration. The courses count as lower-division electives. (Freshman and Sophomore Year). If a maximum of six courses is accepted, the student will receive 12 credits in business towards the 120 or 128 required for graduation. In addition to the 12 AIB credits, a student may transfer up to 64 credits from a Maryland Community College without loss of credit.

**Criteria to be Applied**

The following criteria and evidence of attainment are required for the acceptance of courses:

Student must complete AIB course with a grade of "B" or better.

The class must have met in a formal classroom setting for a semester.

A transcript signed by the AIB Chapter President.

Certification by Baltimore Chapter.

The course required the student to pass a minimum of two examinations

The course was completed during a five-year period prior to the date of submission of the transfer request.

The student must have been employed by a bank on a full-time basis during the period covered by the course.

The student must have been employed in banking full-time during a period of 18 consecutive months during the past seven years.

Certification by Baltimore Chapter.

Certification of dates during which the course was offered by the Chapter.

Certification by Baltimore Chapter.

Certification by Baltimore Chapter.

**How to apply for credit**

To apply for credit for AIB courses, the student takes the following actions: write a letter to the Chairperson, Department of Business Administration, Towson State College, Baltimore, Md. 21204. In the letter the student should: request credit for specific AIB courses; indicate that he or she has requested the AIB Chapter to certify criteria listed above (directly from Chapter to Towson); indicate that he or she has requested a certification of employment from the Personnel Department of Bank directly to Towson; enroll as a student at Towson State College.

**Courses which qualify**

Once accepted, AIB courses are applied towards BUAD 0506.299, Practicum in Banking. The following American Institute of Banking courses currently qualify for credit:

- Credit Administration
- Home Mortgage Lending
- Installment Credit
- Principles of Bank Operations
- Savings and Time Deposit Banking.
- Bank Letters and Reports
- Bank Management
- Bank Public Relations and Marketing
- Analyzing Financial Statements
- Trust Functions and Services

**BUSINESS ADMINISTRATION COURSES (0506)**

**Lower Division — Undergraduate**

0506.101 (16.101) INTRODUCTION TO BUSINESS MANAGEMENT (3) This course is concerned with the problems of organization dynamics and behavior of people, within and outside the business, with which management must deal in attaining the objectives of the enterprise. Not for major credit.

0506.201-202 (16.201-202) ACCOUNTING PRINCIPLES I, II (3, 3) Fundamentals of accounting as applied to proprietorships, partnerships, and corporations. The recording process; construction, interpretation, and managements' use of financial statements.

0506.221 (16.221) BASIC REAL ESTATE (3) This course covers the principles of real property, landlord-tenant relationship, contracts, agency and listings, transfer of title, title insurance and settlements, fundamentals of appraising, real estate finance, license law, rules and regulations, Code of Ethics, rights and community relations, and basic real estate mathematics. This course fulfills the Maryland Real Estate Commission's basic course requirement for the Real Estate Salesperson license and will assist in success-

fully completing the E.T.S. Salesperson Licensing Exam. (Not for major credit.)

- 0506.222 [16.222] REAL ESTATE SALES AND SALES MANAGEMENT (3) Principles of Real Estate Sales, including discussions of positive self-image, setting short and long range goals, budgeting of time, prospecting and soliciting listings, handling objections, closing sales; theories of why people buy property; techniques of developing listings, gathering contacts and referrals, qualifying prospects, advertising property, and sales presentation. (Does not count for major credit.)
- 0506.223 [16.223] LIFE INSURANCE (3) Fundamental principles, contracts, cost to policy holders, premium holders, premium computation, calculation, apportionment of surplus. Laws and regulations, estate planning and group insurance. (Not for major credit.)
- 0506.224 [16.224] REAL ESTATE APPRAISAL AND DEVELOPMENT (3) This course covers the nature and purpose of appraisals; basic principles of real property value; the appraisal process; developing building cost estimates; theory and procedure of coordinated land use and development—both commercial and industrial; business-government relationships; urban renewal; zoning regulations; the role of the builder in real estate development; and condominiums. (Does not count for major credit.)
- 0506.299 [16.299] PRACTICUM IN BANKING (2) Students receive credit for a combination of work experience and courses taken through the Baltimore Chapter of the American Institute of Banking. Up to 12 credits may be earned in this practicum. Prerequisite: Consent of Chairperson.

### Upper Division — Undergraduate

- 0506.301-302 [16.301-302] INTERMEDIATE ACCOUNTING I, II (3,3) Preparation and analysis of financial statements. Accounting theory. Valuation of working capital, non-current assets and liabilities, revenue and expenses. Prerequisite: 0506.202.
- 0506.303-304 [16.303-304] COST ACCOUNTING I, II (3,3) First semester will offer components of manufacturing cost under the job order and processing cost system. The second semester will cover preparation of budgets and budgetary controls, standard costs and their application in budgetaries control. Prerequisite: 0506.202.
- 0506.305-306 [16.305-306] TAX ACCOUNTING I, II (3,3) I—Federal income tax laws governing gross income, deductions, calculation of taxable income and income tax rates. Emphasis is placed on the effect of these laws on the income of individual tax payers. II—Federal income tax laws dealing with partnerships, corporations, special tax areas and State of Maryland income tax laws. Prerequisite: 0506.202.
- 0506.307 [16.307] SPECIAL TOPICS IN ACCOUNTING (3) Examines problems encountered in accounting for estates, trusts, municipalities, correction of errors, cash flow, and bankruptcy. Prerequisites: 0506.302.
- 0506.311-312 [16.311-312] ADVANCED ACCOUNTING I, II (3,3) I—The theory and practice of accounting for partnerships, installment sales, consignments, branch offices, and special accounting situations. II—A continuation of theory and practice of accounting as it pertains to consolidations, estates and trusts, municipal institutional accounting. Prerequisite: 0506.302.
- 0506.313-314 [16.313-314] AUDITING I, II (3,3) I—Examination of generally accepted auditing standards, internal control, professional ethics, and an introduction to auditing procedures. II—A continuation of Auditing I concentrating on auditing procedures, techniques, and standards of reporting. Prerequisite: 0506.302.

- 0506.325 [16.325] BUSINESS LAW I (3) The function of the law with particular attention to contracts, agency, sales, commercial paper, personal property, and real property.
- 0506.326 [16.326] BUSINESS LAW II (3) The law of partnerships, corporations, estates, bankruptcy, and of government relationships with business. Prerequisite: 0506.325.
- 0506.331 [16.331] FINANCIAL MANAGEMENT (3) An analytical approach to the study of financial problems of business concerns. Instruments and institutions significant for financial management are studied. Prerequisites: 0506.202, Junior/major standing.
- 0506.332 [16.332] ADVANCED CORPORATE FINANCE (3) This course covers selected topics in managerial finance including cost of capital, capital-structure management, techniques of financing, and tools of financial decision-making. Prerequisite: 0506.331.
- 0506.333 [16.333] PRINCIPLES OF INVESTMENTS AND SECURITY ANALYSIS (3) The valuation of stocks and bonds: safety, income, and marketability. Analysis of financial statements. Portfolio management. Prerequisites: 0506.331, Junior/major standing.
- 0506.341 [16.341] MARKETING MANAGEMENT (3) An analytical approach to the study of marketing problems of business firms. Attention is focused on the influence of the marketplace, the industry structure, and the role of government. Prerequisite: Junior/major standing or consent of instructor.
- 0506.343 [16.343] PHYSICAL DISTRIBUTION MANAGEMENT (3) A study of the elements involved in physical distribution management. Topics include transportation, packaging, materials handling, warehouse location. A systems approach is employed emphasizing the trade-offs between the various functions. Prerequisite: 0506.341.
- 0506.345 [16.345] ADVERTISING MANAGEMENT (3) Analysis of promotional strategies for different classifications of products and services. Planning, preparing and scheduling advertisements. Media selection and determination of effectiveness. Advertising research. Prerequisite: 0506.341.
- 0506.355 [16.355] INTRODUCTION TO INTERNATIONAL BUSINESS (3) International payments, importing and exporting, foreign investment, market entry, foreign taxation, international business law. Prerequisite: Junior/major standing or consent of instructor.
- 0506.361 [16.361] MANAGEMENT THEORY (3) The nature, development and future prospects of management and organization theory. Management functions and processes are viewed in terms of organization, directing, communication, goals and responsibilities. Prerequisites: nine hours of upper level BUAD courses.
- 0506.363 [16.363] QUANTITATIVE METHODS FOR BUSINESS (3) A course examining the processes, tools, and techniques for quantitative analysis for management. Covers basic theory for solving deterministic and probabilistic models with emphasis on applications to the business environment. Includes linear programming, optimization models, inventory, queueing, scheduling and game theory. Prerequisites: 1701.115 and 1701.231.
- 0506.371 [16.371] PRINCIPLES OF TRANSPORTATION (3) Study of the economic and political factors affecting transportation and transportation systems. Development problems and government regulation. Study of freight and passenger carrier modes. Prerequisite: Junior/major standing or consent of instructor.
- 0506.381 [16.381] PERSONNEL MANAGEMENT (3) Review of techniques and problems in obtaining and developing a competent work force. Recruiting, selecting, testing, and

evaluating employees. Wage and salary administration. Prerequisites: Junior/major standing or consent of instructor.

0506.435 (16.435) INTERNATIONAL FINANCE (3) The operating framework of international finance including balance of payments, foreign exchange, foreign money markets and financial management of the multi-international corporation. Prerequisites: 0506.331, 0506.355.

0506.441 (16.441) MARKETING RESEARCH (3) The theory and application of marketing research as a tool facilitating the corporate decision making process from sales research, market analysis through motivational analysis, advertising policy and product and package design. Course projects will provide an opportunity to develop proficiency in research design, sampling theory, data collection, interview techniques and statistical analysis. Prerequisites: 0506.341, 1701.231.

0506.445 (16.445) INTERNATIONAL MARKETING (3) The environment of international marketing including channels of distribution, advertising, and legal, economic and cultural factors. Problems and obstacles related to market surveys and development of policies. Regional studies. Prerequisites: 0506.341, 0506.355.

0506.451 (16.451) INDUSTRIAL RELATIONS (3) Studies in contract negotiation and collective bargaining. Labor disputes, internal problems in unions, management problems, and legal constraints. Prerequisites: 0506.381, 2204.381.

0506.452 (16.452) GRIEVANCES AND ARBITRATION (3) Case study analysis of the Grievance and Arbitration procedure or a means of conflict resolution in existing Industrial Relations systems. Discharge, discipline, working conditions, past practice, promotion, overtime, and other specific arbitrable issues will be discussed. Prerequisite: 0506.381.

0506.461 (16.461) ADMINISTRATIVE ANALYSIS (3) Techniques of increasing management efficiency, including organization analysis, systems analysis, time and motion study, automatic data processing and feasibility studies. Prerequisites: 0506.202, junior/major standing or consent of instructor.

0506.463 (16.463) SEMINAR IN LEADERSHIP (3) A seminar course designed to challenge the student's ability to form soundly developed business decisions. The objective is to develop leadership styles and strategies by relating the appropriate marketing, financial, and production information available to management. Prerequisite: nine hours upper level BUAD courses.

0506.491 (16.491) DIRECTED READINGS (1-3) Readings in selected functional or conceptual areas of business or management. Prerequisite: Consent of instructor.

0506.495 (16.495) INDEPENDENT RESEARCH IN BUSINESS ADMINISTRATION (1-3) Directed research on specific problems in a functional area of business or management. Prerequisite: Consent of instructor.

0506.497 (16.497) BUSINESS PRACTICUM (3,6,9) Students are required to work in assigned projects in actual business environments. Priority will be given to seniors. Open to highly qualified juniors. May be re-elected for a maximum total of 9 credit hours. Prerequisites: Senior standing; open to highly qualified juniors.

### Upper Division — Graduate and Undergraduate

0506.481 (16.481) ADVANCED BUSINESS POLICY WORKSHOP (3) A course requiring practical application of principles of management in an organizational framework. Class will integrate functional skills in the areas of finance, marketing, personnel, and management. Prerequisites: Senior standing or consent of instructor.



# Chemistry

**Professor:** KASK

**Associate Professors:** BLANKENSHIP, MILIO, SWEETING,  
TOPPING, WINGROVE (Choirperson), YARBROUGH

**Assistant Professors:** CARET, LARKIN, RAWN, RODEWALD

**Instructors:** DEBYE

**Assistant Instructors:** DEMETRIADES, EMMEL

## CHEMISTRY MAJOR

This major is recommended for students who intend to do graduate work in chemistry, to teach in secondary schools, to work in industrial, government and hospital laboratories, technical libraries, etc. Students who plan chemically oriented careers such as fundamental and industrial research, medicine, dentistry, pharmacy, veterinary medicine, agriculture, and other allied fields, may also elect this major. Students electing this major should contact the chemistry department to be assigned an advisor to assist them in designing a program to meet their special needs (see chemistry department secretary). Students should see their advisors early in their time at Towson State College and upon occasion of any change in courses or schedule in their program.

In addition to the general requirements for a bachelor's degree the following chemistry and supporting courses are required for all chemistry majors: (The abbreviations following the titles are for the recommended year in which the course should be taken.)

### Requirements

Major — total credits 56

1701.273	Calculus I (FR)	(4)_____
1701.274	Calculus II (SO)	(4)_____
1902.221	General Physics I (FR) (or 1902.211 but this is not recommended and is not allowed for the ACS certified degree)	(4)_____
1902.222	General Physics II (SO) (or 1902.212 but this is not recommended and is not allowed for the ACS certified degree)	(4)_____
1905.101	General Chemistry I (FR)	(4)_____
1905.102	General Chemistry II (FR)	(4)_____
1905.211	Quantitative Analytical Chemistry (SO)	(4)_____
1905.331	Organic Chemistry I (SO)	(5)_____
1905.332	Organic Chemistry II (SO)	(5)_____
1905.342	Physical Chemistry — Structure & Kinetics (SO)	(3)_____
1905.341	Physical Chemistry — Thermodynamics (JR)	(3)_____
1905.343	Physical Chemistry Laboratory (JR)	(1)_____
1905.344	Physical Chemistry Laboratory (JR)	(1)_____
1905.422	Inorganic Chemistry (JR)	(4)_____
1905.411	Instrumental Methods of Analysis (SR)	(5)_____
1905.401	Seminar in Chemistry (SR)	(1)_____

For those who intend to go to graduate school in chemistry at least two post-physical chemistry courses in chemistry and two semesters of German or Russian are strongly recommended. Additional physics and mathematics courses are also recommended, especially Computer Science 0701.337 and/or 1701.471. (See ACS Certification.)

Students in the secondary education program (planning to teach chemistry in accredited schools) have an addi-

tional certification requirement of Biology 0401.101. These students should be registered with the Secondary Education department, should have an advisor on their education program in addition to their Chemistry Faculty Advisor, and should consult with him/her concerning current certification and program requirements.

## AMERICAN CHEMICAL SOCIETY ACCREDITED DEGREE

The Department offers an American Chemical Society (ACS) accredited degree. The ACS degree is widely recognized throughout industry, government and education as a standard of excellence. Students with a good G.P.A. are therefore urged to take this degree program. To obtain an ACS accredited degree a student must complete all the requirements for a regular major in Chemistry and must complete the following additional program of study: 1905.491 must be taken plus two electives selected from the following advanced Chemistry courses: 1905.412, 1905.431, 1905.432, 1905.441, 1905.452 or 1905.453. A student may substitute one and only one of the advanced courses in Chemistry (excluding 1905.491) by an advanced course in either Physics or Mathematics. A student selecting this option must obtain prior departmental approval.

In selecting this program, a student should plan his college career carefully as not all the advanced Chemistry courses are offered every semester. A tentative schedule of when these courses will be offered (through 1978) may be obtained from the Chemistry Department Office. This schedule is subject to demand.

## CHEMISTRY MINOR

Students whose major interest is in cell or molecular biology, physiology or physiological psychology, environmental studies, natural science or molecular physics will find that a good chemistry background will provide insights into their major field. The Chemistry minor provides such a broad background and is adaptable to student interests.

### Requirements

Minor — total credits 24 (minimum)

1905.101	General Chemistry I	(4)_____
1905.102	General Chemistry II	(4)_____
1905.210	Principles and Methods of Chemical Analysis	(4)_____
or		
1905.211	Quantitative Analytical Chemistry	
1905.331- 332	Organic Chemistry I & II	(10)_____
or		
1905.330	Essentials of Organic Chemistry	(5)_____
1905.351	Essentials of Biochemistry	(3)_____

and one or more upper division Chemistry courses to make at least 12 upper division credits.

## Natural Science Major

This program is designed to give a broader view of the sciences than is obtained in a traditional undergraduate major in a single science. This is done at the sacrifice of depth and students should, therefore, be aware that this major will not prepare them for graduate work in a single science.

Prospective secondary school teachers of general science should elect this major. Students should plan their pro-

grams to meet the certification requirements of the area in which they plan to teach.

Students with this major are encouraged to take elective courses in Chemistry. For details, see Physics Department.

### Dual Degree Program in Engineering

A student may obtain a bachelor's degree with a major in chemistry from Towson State College and a degree in engineering from the University of Maryland as part of a joint program. This program is described in "The College Curriculum" section of this catalog. Further information may be obtained from the Chemistry Department Office.

### CHEMISTRY COURSES (1905)

The Chemistry department has an extensive "credit for prior experience" program; students may obtain further information from the Chemistry Department office.

#### Lower Division — Undergraduate

**1905.100 (22.100) CHEMISTRY FOR NON-SCIENTISTS (3)** A course for the non-scientist help him or her understand and evaluate current and future technological and scientific developments, especially those related to chemistry. Chemical principles will be discussed in the light of such topics as: nuclear power, environmental pollution and body chemistry. The approach will be non-mathematical. Three hours of lecture-discussion.

**1905.101-102 (22.101-102) GENERAL CHEMISTRY I, II (4, 4)** Atomic and molecular structures and their relation to properties of matter; solutions; types of reaction, energetics, kinetics, equilibria, and the related study of some important metallic and non-metallic elements. Laboratory work involves individual quantitative experiments and semiquantitative analysis. Three lecture hours and one three-hour laboratory period. Prerequisite: High school algebra.

**1905.105-106 (22.105-106) CHEMISTRY FOR ALLIED HEALTH PROFESSIONS I, II (4, 4)** Concepts of General Chemistry, Organic Chemistry and Biochemistry are studied. The laboratory will aid students in mastering basic laboratory techniques. These include methods of measurement, both direct and instrumental, reading and handling of data such that concepts of accuracy and precision are realized. Three lecture hours and one 3-hour laboratory. May not be used as a prerequisite for other Chemistry courses.

**1905.210 (22.210) PRINCIPLES AND METHODS OF CHEMICAL ANALYSIS (4)** A one semester course in chemical analysis for non-chemistry majors emphasizing the theory and application of common gravimetric, volumetric, chromatographic, spectrophotometric, and electrometric techniques. Prerequisite: 1905.102. Two lecture, one recitation, and four laboratory hours.

**1905.211 (22.211) QUANTITATIVE ANALYTICAL CHEMISTRY (4)** Principles and methods of treatment of data pertaining to chemical analysis followed by a development of the theory and techniques associated with common gravimetric, volumetric, and spectrophotometric methods of analysis. Two lecture hours and two three-hour laboratory periods. Prerequisite: 1905.102.

**1905.241 (22.241) PREPARATION FOR PHYSICAL CHEMISTRY (1)** Practice in the strategy of solving physical and chemical type problems in preparation for use in physical chemistry. One lecture hour. Prerequisite: MATH 1701.274 (or concurrently).

#### Upper Division — Undergraduate Only

**1905.330 (22.330) ESSENTIALS OF ORGANIC CHEMISTRY (5)** A one semester course in organic chemistry for non-chemistry majors taught on a conceptual basis. Emphasis will be on principles, mechanisms, and modern techniques.

Laboratory will include synthesis and identification of organic compounds. Prerequisite: 1905.102. Three lecture hours, one recitation and one three-hour laboratory.

**1905.331-332 (22.331-332) ORGANIC CHEMISTRY I, II (5, 5)** Structure, reactions, preparation and properties of the compounds of carbon, as well as mechanisms of organic reactions. Laboratory techniques, synthesis of typical organic compounds and modern methods of organic qualitative analysis. Three lecture hours and one four-hour laboratory period. Prerequisite: Chemistry 1905.102.

**1905.361 (22.361) MODERN CONCEPTS OF CHEMISTRY (4)** Principles of modern chemistry including some inorganic, organic, analytical, and physical chemistry in an integrated treatment. Primarily for secondary school science teachers. Three lecture hours and one three-hour laboratory period. May not be counted for credit by chemistry majors since the course content is covered elsewhere in their curriculum. Prerequisite: CHEM 1905.102 and two other science courses.

#### Upper Division — Undergraduate and Graduate

**1905.341 (22.341) PHYSICAL CHEMISTRY — THERMODYNAMICS (3)** Thermodynamics, phase relations, solution properties, chemical equilibrium and electrochemistry. Three lecture hours. Prerequisites: CHEM 1905.102, MATH 1701.274, and PHYS 1902.222 or 1902.212; CHEM 1905.241 is recommended.

**1905.342 (22.342) PHYSICAL CHEMISTRY — STRUCTURE AND KINETICS (3)** Introduction to quantum chemistry; atomic and molecular structure, atomic and molecular spectroscopy, introduction to statistical thermodynamics, kinetic theory, and chemical kinetics. Three lecture hours. Prerequisites: CHEM 1905.102, MATH 1701.274, and PHYS 1902.222 or 1902.212; CHEM 1905.241 is recommended.

**1905.343 (22.343) PHYSICAL CHEMISTRY LABORATORY I (1)** Five short laboratory projects in physical chemistry. Prerequisites: CHEM 1905.211 and CHEM 1905.341 or 1905.342.

**1905.344 (22.344) PHYSICAL CHEMISTRY LABORATORY II (1)** Five short laboratory projects in physical chemistry. Prerequisites: CHEM 1905.211 and CHEM 1905.341 or 1905.342.

**1905.351 (22.351) ESSENTIALS OF BIOCHEMISTRY (3)** Introduction to the chemical structure and properties of the constituents of living matter, including amino acids, proteins, nucleic acids, enzymes, carbohydrates and lipids. Enzyme kinetics, equilibria and thermodynamics in biochemical transformations will be presented. Three lecture hours. Prerequisites: CHEM 1905.332 or 1905.330.

**1905.352 (22.352) ESSENTIALS OF BIOCHEMISTRY LABORATORY (2)** To provide a basic working knowledge of a wide variety of laboratory techniques currently in use in the field. One lecture hour and one three-hour laboratory. Prerequisite: 1905.351 and 1905.210 or 1905.211.

**1905.353 (22.353) BIOCHEMISTRY (5)** A detailed analysis of protein structure and function including enzyme kinetics, multiple equilibria, and regulation of enzyme action. Major metabolic pathways for the synthesis and degradation of carbohydrates will be discussed in detail. Particular emphasis will be placed upon bioenergetics and the control mechanisms operating in cellular metabolism. Laboratory will be coordinated with lecture and will involve contemporary experiments. Three lecture hours and one four-hour laboratory. Prerequisite: 1905.332 and 1905.211 or 1905.210. Offered in the Spring if sufficient demand.

**1905.361 (22.361) CHEMICAL AND BACTERIOLOGICAL STUDIES ON WATER POLLUTION (3)** Deals mainly with water pollution: causes, effects, and cures. Considers details of water and waste treatment. Emphasizes technical details of analysis of water. Concerns standards of water purity and variables involved. Demonstration of analytical

methods to be given. Case studies and applications are viable approaches to this topic. Prerequisites: 1905.102 and 0401.101.

1905.363 [22.363] CHEMISTRY OF DANGEROUS DRUGS (3) A study of the chemistry, methods of detection and analysis of narcotics, depressants, stimulants and hallucinogens. Also, the influence of physicochemical properties upon the pharmacological effects of drug-receptor interactions. Historical, forensic, and socio-economic implications associated with drug abuse will also be reviewed. Three lecture hours. Prerequisite: 1905.330 and 1905.351 or 1905.331-332. Also 1905.210 or 1905.211 recommended.

1905.391 [22.391] SPECIAL PROBLEMS IN CHEMISTRY (1-3) A laboratory or library problem in any particular area of chemistry to be selected by the student in consultation with the instructor. Students are required to submit a written report. May be repeated for credit as CHEM 1905.392, 1905.393, etc. Prerequisite: Written consent of instructor. Offered each semester.

1905.401 [22.401] SEMINAR IN CHEMISTRY (1) The attendance at all seminars and presentation of two seminars to the Chemistry Department on topics selected by the chemistry faculty or selected by the student and approved by the faculty. One and one-half hour seminar period. Prerequisite: Chemistry 1905.211, 1905.332; Co-requisite: Chemistry 1905.341 or 1905.342.

1905.411 [22.411] INSTRUMENTAL METHODS OF ANALYSIS (5) Theory, instrumentation, and application of various electrochemical, chromatographic, spectroscopic and spectrophotometric techniques to chemical analysis. Three lecture hours and one five-hour laboratory period. Prerequisite: CHEM 1905.211 and 1905.341 or 1905.342. Fall semester.

1905.412 [22.412] ADVANCED ANALYTICAL CHEMISTRY (3) A special topics course dealing with the theory and application of more recent and specialized techniques of chemical separation and analysis. Three lecture hours. Prerequisite: CHEM 1905.411. Offered in the Spring if sufficient demand.

1905.422 [22.422] INORGANIC CHEMISTRY (4) Nuclear and extranuclear structure, molecular orbital and ligand field theories, aqueous and non-aqueous reactions, coordination chemistry, inorganic synthesis, modern instrumentation, etc. Three lecture hours and one three-hour laboratory period. Prerequisite: CHEM 1905.342 or concurrently. Spring semester.

1905.431 [22.431] ADVANCED ORGANIC CHEMISTRY LABORATORY (3) The design of organic synthesis, advanced laboratory techniques and determination of structure by chemical and spectroscopic means will be taught by laboratory problems and discussion. One lecture hour and two 3-hour laboratory periods. Prerequisite: CHEM 1905.332. Offered in the Fall if sufficient demand.

1905.432 [22.432] ADVANCED ORGANIC CHEMISTRY (3) Advanced topics will include several of: molecular orbital theory, pericyclic reactions, photochemistry, and determination of reaction mechanisms by: kinetics, linear free energy relationships, acid-base properties, acid-base catalysis, detection of intermediates, stereochemistry, etc. Three lecture hours. Prerequisites: CHEM 1905.332 and 1905.342; 1905.341 is also recommended. Offered in the Spring if sufficient demand.

1905.441 [22.441] ADVANCED PHYSICAL CHEMISTRY (3) Two topics in the area of Physical Chemistry to be covered in depth. Topics will be selected by the instructor after consultation with the students. Examples of possible topics are: formal wave mechanics, bonding, solid state, liquid state, surface chemistry, colloids, high polymers, rheology, ionic conductivity, electrochemical cells, scatter-

ing phenomena, statistical thermodynamics. Three lecture hours. Prerequisites: CHEM 1905.341 and 1905.342. Offered in the Fall if sufficient demand.

1905.452 [22.452] ADVANCED BIOCHEMISTRY (3) The use of physical methods in the study of biochemical systems, biochemical thermodynamics; the structure of proteins including X-ray crystallography, macromolecular solution thermodynamics, enzyme kinetics, and spectroscopic probing of macromolecular structure will be discussed. Three lecture hours. Prerequisite: 1905.341, 1905.342 (can be taken concurrently), 1905.353. Offered in the Fall if sufficient demand.

1905.453 [22.453] ADVANCED BIOCHEMISTRY LABORATORY (2) Basic laboratory techniques involving the synthesis, isolation, purification, identification, and further reactions of substances in biochemical systems. Two three-hour laboratory periods. Prerequisite: CHEM 1905.351.

1905.491 [22.491] INTRODUCTION TO RESEARCH IN CHEMISTRY (1-3) An individual laboratory and/or library investigation in research interest of an instructor. May be repeated for credit as CHEM 1905.492, 1905.493, 1905.494, etc. At the completion of a project the student is required to give a public seminar and write a detailed report on the work done and the principles involved. The vote of the Chemistry faculty present in the seminar together with faculty comments on the research report will be considered by the research supervisor in assigning final grades. Prerequisite: Consent of instructor. Offered each semester.

## Minimester Courses

1905.001 [22.001] CHEMICAL LITERATURE (1) Instruction in the use of the library and of the literature of chemistry. Library problems related to information retrieval will be assigned. Prerequisites: Permission of instructor; junior, senior standing in Chemistry.

1905.002 [22.002] CHEMISTRY OF DANGEROUS DRUGS (2) A survey of the chemistry, methods of detection, and analysis of narcotics, depressants and stimulants. Historical background, forensic and socio-economic implications associated with drug abuse will also be reviewed. Laboratory experiments will utilize GLC, TLC, UV-Visible and Fluorometric techniques. Prerequisites: Consent of instructor.

1905.003 [22.003] APPLIED INSTRUMENTAL TECHNIQUES: NUCLEAR MAGNETIC RESONANCE (NMR) SPECTROSCOPY (1) Deals with practical use and application of instrument. Theory will be discussed briefly, but emphasis will be on practical use of instrument in pure and applied chemical investigations. Lecture and practical demonstrations will be used, and students will participate in the actual operation of NMR instrument. Prerequisites: 1905.102 and 1905.330 or 1905.332 or consent of instructor.

1905.004 [22.004] APPLIED INSTRUMENTAL TECHNIQUES: INFRARED SPECTROSCOPY (1) This course deals with the theory and application of infrared spectroscopy in Chemistry. Several infrared spectrometers, both high and low resolution, will be used for such chemical problems as structure determination, analysis of mixtures, measurement of equilibrium constants, and measurement of bond strengths. Prerequisites: CHEM 1905.330 or 1905.332 or consent of instructor.

1905.005 [22.005] APPLIED INSTRUMENTAL TECHNIQUES: MASS SPECTROSCOPY (1) The practical use and applications of the instrument. Theory will be discussed briefly, but emphasis will be on practical use of instrument in pure and applied chemical investigations. Lecture and practical demonstrations will be used, and students will participate in the actual operation of the mass spectrometer. Prerequisites: CHEM 1905.102 and 1905.330 or 1905.332 or consent of instructor.



# Communication Arts and Sciences

**Professor:** WALLACE (Chairperson)

**Associate Professors:** BOSLEY, LONEGAN, SCHWARTZ, STONE

**Assistant Professors:** DWIN, GLADSTONE, MACKERRON, ROWAN, SHIPMAN, VATZ, VIRDEN

**Instructors:** GREYERBIEHL, STANLEY, TAYLOR

The Department of Communication Arts and Sciences is composed of three areas of concentration, i.e., Speech Communication, Mass Communication, and Speech and Language Pathology and Audiology.

The Curricula in the Department are designed to provide the best possible learning and training in the communication arts and sciences. The programs of study are designed to provide, in cooperation with other departments, a broad liberal education as well as a special professional training with emphasis placed upon acquiring knowledge as well as skill. Students can select from five programs of study: (1) Speech and Drama major, Bachelor of Arts or Bachelor of Science; (2) Speech and Drama major, Secondary Education Program; (3) Public Address major; (4) Mass Communication major; or (5) Speech and Language Pathology and Audiology major. Students who wish to qualify for any of the five programs in Communication Arts and Sciences must register with the area coordinator of their chosen major.

The Master's of Science degree program in Speech and Language Pathology and Audiology is designed to enable students to meet state and national certification (and licensing) requirements in Speech and Language Pathology and Audiology. A student may elect an emphasis in either Speech Pathology, Language Pathology or Audiology. For further information see the Graduate Studies Bulletin.

Students majoring in Speech and Drama should register as soon as possible in their college careers, preferably early in their freshman year and certainly no later than the beginning of their sophomore year.

## Departmental Activities

Departmental activities include support for three active student organizations — Creative Interpreters Guild, Forensics Union and the National Student Speech and Hearing Association. Student participation in these organizations is encouraged. Several informal social events are scheduled each year by these organizations so that students and faculty can meet in a more relaxed atmosphere.

## Career Opportunities

Career opportunities for majors in the Department of Communication Arts and Sciences are rather broad; for example, graduates from the various majors are currently working with radio and television stations, newspapers, film companies, public schools, public relations firms, hospitals, clinics and governmental agencies.

The student wishing to major in any area in the Department should call for an appointment to talk with an academic advisor.

Transfer students should register during their first semester at the college. Transfer students are required to take twenty hours in residence in their major area.

No transfer credits will be accepted toward the major or minor in Programs (1), (2), (3) or (4) until the student has made application for the credit transfer and examination through the area coordinator. Applications for transfer of credits and prior experience is the responsibility of the

student. The applications and examinations will be reviewed by the area faculty and the student notified as to the status of the application.

Only those students maintaining a grade point of 2.75 in their major courses taken at Towson State College in Programs (1), (2), (3) or (4) will be recommended for a major in those programs of study. Only those students maintaining a grade point of 2.5 overall and 2.75 in the pre-major courses will be recommended as a major in Speech and Language Pathology and Audiology.

No more than six credits of Independent Study course work can be applied to the major or minor in Programs (1), (2), (3) or (4).

The following are the required courses for this academic department and the total number of credits needed by the student to fulfill the requirements for the various majors and/or minors in the department. Students are reminded that these are in addition to the General College Requirements.

## BACHELORS DEGREE . . . SPEECH AND DRAMA MAJOR — ARTS AND SCIENCES PROGRAM

### Requirements

Major	22
Electives	15

1506.106	Voice and Diction	(3)_____
1506.131	Fundamentals of Speech Communication	(3)_____
1506.203	Advanced Public Speaking	(3)_____
1506.221	Oral Interpretation of Literature	(3)_____
1506.310	Phonetics of American English	(3)_____
1007.231	Mime I	(3)_____
1007.311	Theatre Production	(4)_____

### 9 semester hours selected from:

0605.201	Introduction to Broadcasting	(3)_____
0605.202	Introduction to Film	(3)_____
0605.261	Basic Television Techniques	(3)_____
0605.267	Film Communication	(3)_____
1506.216	Group Discussion	(3)_____
1506.231	Argumentation and Debate	(3)_____
1506.249	Forensics I	(1)_____
1506.250	Forensics II	(1)_____
1506.304	Persuasion	(3)_____
1506.320	Readers Theatre	(3)_____
1506.349	Forensics III	(1)_____
1506.350	Forensics IV	(1)_____
1506.395	Independent Study in Oral Interpretation	(1-6)_____
1506.403	Classical and Modern Rhetoric	(3)_____
1506.423	Advanced Oral Interpretation	(3)_____
1599.405	American Public Address	(3)_____
1599.432	Coaching & Management of Forensics	(3)_____
1506.411	Independent Study in Chamber Theatre	(1-6)_____
1506.493	Independent Study in Readers Theatre	(1-6)_____
1506.495	Independent Study in Public Address	(1-6)_____

### 3 semester hours from:

1501.309	American Drama	(3)_____
1501.321	Modern Drama	(3)_____
1501.312	World Drama I	(3)_____
1501.313	World Drama II	(3)_____

1501.319	English Medieval & Renaissance Drama	(3)_____
1501.320	English Drama from Restoration to Shaw	(3)_____
1501.415	Shakespeare (Comedies)	(3)_____
1501.416	Shakespeare (Tragedies)	(4)_____

3 semester hours from:

1506.213	General Semantics	(3)_____
1506.402	Hearing and Speech Science	(3)_____
1506.521	Experimental Phonetics	(3)_____
1220.105	Speech and Language Development	(3)_____
1220.302	Speech Pathology I	(3)_____

The student who prepares to teach in the high school is also required to complete 1501.379, Teaching Speech and Drama in the Secondary School.

In addition, the student is strongly urged to complete satisfactorily a minor program of advanced course work in an area closely allied to the field of speech and drama, but chosen from courses offered in a department other than Speech and Drama. The minor program should be chosen with the approval of the student's departmental adviser.

The Bachelor of Arts degree may be earned by adding a foreign language to the major course requirements. The language requirement may be met by completing the intermediate course of a modern foreign language or its equivalent.

### **Bachelors Degree . . . Speech and Drama Major, Secondary Education Program**

The course of study for the teaching major follows the program of the general major but requires, in addition, 1506.379, Teaching Speech and Drama in the Secondary School, a course in speech education for professional preparation. The prospective speech and drama teacher in the high school should also complete the required courses in secondary education in order to be certified for teaching. Speech Education majors should consult with advisor to determine minor area of certification. Speech and Drama secondary majors are very strongly urged to complete 24 hours of English courses, plus 0803.360, Teaching Reading in the Secondary School and 0803.357, Teaching English in the School. Student must complete 24 hours of Speech before taking 1506.379. Speech and Drama Secondary Education Majors must register with the departmental secretary one full semester prior to the semester in which they register for student teaching. Student teaching should be done the first semester of the senior year. It is also the student's responsibility to see that he/she is meeting the State Requirements under which certification is being sought.

### **SPEECH AND DRAMA MINOR**

#### **Requirements**

Minor	22
Electives	2

20 semester hours from:

1506.106	Voice and Diction	(3)_____
1506.131	Fundamentals of Speech Communication	(3)_____
1506.201	Oral Interpretation of Literature	(3)_____
1506.203	Advanced Public Speaking	(3)_____
1506.310	Phonetics of American English	(3)_____
1007.231	Mime I	(3)_____
1007.311	Theatre Production	(4)_____

2 semester hours chosen in consultation with advisor.

### **BACHELORS DEGREE . . . PUBLIC ADDRESS**

This program is designed to allow the student to pursue, in depth, study in the area of rhetoric and public address; i.e., the theory and practice of speechmaking. This study includes the scientific nature of the speech process, theories of interpersonal communication, introduction to the speech arts of discussion, debate, oral interpretation of literature, persuasive speaking, and the history and criticism of public speaking. The program is designed for the student interested in college teaching, coaching, and research in speech communication. It also serves as excellent preparation for a career in business or government.

#### **Requirements**

Major	30
Electives	6

12 semester hours from:

1506.106	Voice and Diction	(3)_____
1506.131	Fundamentals of Speech Communication	(3)_____
1506.202	Advanced Public Speaking	(3)_____

3 credits chosen in consultation with advisor.

6 semester hours from:

1506.216	Group Discussion	(3)_____
1506.249, 250	Forensics I, II	(1, 1)_____
1506.349, 350	Forensics III, IV	(1, 1)_____
1506.432	Coaching & Management of Forensics	(3)_____
1599.231	Argumentation & Debate	(3)_____

6 semester hours from:

1506.221	Oral Interpretation of Literature	(3)_____
1506.320	Readers Theatre	(3)_____
0605.261	Basic Television Techniques	(3)_____
0605.361	Advanced Television Techniques	(3)_____

6 semester hours from:

1506.304	Persuasion	(3)_____
1506.402	Speech and Hearing Science	(3)_____
1599.403	Classical & Modern Rhetoric	(3)_____
1599.405	American Public Address	(3)_____
1599.406	British Public Address	(3)_____
1599.495	Independent Study in Public Address	(1-6)_____
0605.385	Mass Media in a Modern Society	(3)_____

6 semester hours from:

Courses directed more specifically towards the student's vocational objectives with the advice and consent of the student's speech department's advisor.

### **PUBLIC ADDRESS MINOR**

#### **Requirements**

Minor	15
Electives	9

15 semester hours from:

1506.106	Voice and Diction	(3)_____
1506.131	Fundamentals of Speech Communication	(3)_____
1506.203	Advanced Public Speaking	(3)_____
1506.221	Oral Interpretation of Literature	(3)_____
0605.315	Business and Professional Speech	(3)_____

9 semester hours from:

Chosen in consultation with speech department's advisor.

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

**BACHELORS DEGREE . . . MASS COMMUNICATION**

This program offers a broad understanding of the processes, functions and responsibilities of mass communication. Development of skills in fact finding, analysis and communication through the mass media is stressed. The program prepares the student for graduate work and offers excellent background for many careers such as law, public relations, business, communication media, sales and management. Flexibility is purposely built into the program so that the needs of students with special vocational objectives may be met.

Majors are advised to obtain a broad background in the fine arts, humanities, and social sciences.

**Requirements**

Major 18  
Electives 18

18 semester hours from:

0605.101	Introduction to Mass Communication	(0)_____
0605.151	Journalism in a Free Society	(3)_____
0605.201	Introduction to Broadcasting	(3)_____
0605.202	Introduction to Film	(3)_____
0605.211	Communication Process	(3)_____
0605.315	Business & Professional Speech	(3)_____
0605.353	Publicity and Public Relations	(3)_____

3 semester hours from the following production courses:

0605.261	Basic Television Techniques	(3)_____
0605.265	Basic Radio Production	(3)_____
0605.267	Film Communication	(3)_____

3 semester hours from the following writing courses:

0605.355	News writing	(3)_____
0605.358	News editing & Copyreading	(3)_____
0605.367	Television Writing	(3)_____
0605.496	Independent Study in Journalism	(1-6)_____
0605.497	Independent Study in Public Relations	(1-6)_____

NOTE: Independent Study courses are by consent only and only 6 credits of Independent Study courses may be applied to the major or minor.

12 semester hours selected from the following courses of theory and cognition:

0605.001	Washington Film Seminar	(3)_____
0605.002	Producing a Television Series	(3)_____
0605.003	Broadcast Production Engineering	(3)_____
0605.214	Introduction to Advertising	(3)_____
0605.261	Basic Television Techniques	(3)_____
0605.265	Basic Radio Production	(3)_____
0605.267	Film Communication	(3)_____
0605.351	Public Opinion and the Press	(3)_____
0605.352	History of Journalism	(3)_____
0605.355	News writing	(3)_____
0605.356	Feature Writing	(3)_____
0605.358	News editing & Copyreading	(3)_____
0605.359	Magazine Publishing	(3)_____

0605.361	Advanced Television Techniques	(3)_____
0605.363	History of Film	(3)_____
0605.364	Aesthetics of the Film	(3)_____
0605.367	Television Writing	(3)_____
0605.491	Independent Study in Film	(1-6)_____
0605.493	Independent Study in Radio	(1-6)_____
0605.495	Independent Study in Television	(1-6)_____
0605.496	Independent Study in Journalism	(1-6)_____
0605.497	Independent Study in Public Relations	(1-6)_____
1506.216	Group Discussion	(3)_____
1506.221	Oral Interpretation of Literature	(3)_____
1506.304	Persuasion	(3)_____
1599.231	Argumentation & Debate	(3)_____

NOTE: Any courses listed under any category may be used as elective credit if not chosen for fulfillment of major/minor requirements.

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

**MASS COMMUNICATION MINOR**

**Requirements**

Minor 18  
Electives 6

18 semester hours from:

0605.101	Introduction to Mass Communication	(0)_____
0605.151	Journalism in a Free Society	(3)_____
0605.201	Introduction to Broadcasting	(3)_____
0605.202	Introduction to Film	(3)_____
0605.211	Communication Process	(3)_____
0605.315	Business & Professional Speech	(3)_____
0605.353	Publicity & Public Relations	(3)_____

3 semester hours from:

0605.261	Basic Television Techniques	(3)_____
0605.265	Basic Radio Production	(3)_____
0605.267	Film Communication	(3)_____
0605.355	News writing	(3)_____
0605.358	News editing & Copyreading	(3)_____
0605.367	Television Writing	(3)_____

3 semester hours from:

0605.001	Washington Film Seminar	(3)_____
0605.002	Producing a Television Series	(3)_____
0605.003	Broadcast Production Engineering	(3)_____
0605.214	Introduction to Advertising	(3)_____
0605.261	Basic Television Techniques	(3)_____
0605.265	Basic Radio Production	(3)_____
0605.267	Film Communication	(3)_____
0605.351	Public Opinion and the Press	(3)_____
0605.352	History of Journalism	(3)_____
0605.355	News writing	(3)_____
0605.356	Feature Writing	(3)_____
0605.358	News editing & Copyreading	(3)_____
0605.359	Magazine Publishing	(3)_____
0605.361	Advanced Television Techniques	(3)_____
0605.363	History of Film	(3)_____
0605.364	Aesthetics of the Film	(3)_____
0605.367	Television Writing	(3)_____

0605.491	Independent Study in Film	(1-6)_____
0605.493	Independent Study in Radio	(1-6)_____
0605.495	Independent Study in Television	(1-6)_____
0605.496	Independent Study in Journalism	(1-6)_____
0605.497	Independent Study in Public Relations	(1-6)_____
1506.216	Group Discussion	(3)_____
1506.221	Oral Interpretation of Literature	(3)_____
1506.304	Persuasion	(3)_____
1599.231	Argumentation and Debate	(3)_____

NOTE: Any courses listed under any category may be used as elective credit if not chosen for fulfillment of major/minor requirements.

## Bachelors Degree . . . Speech and Language Pathology and Audiology

Students who major in this area pursue a course of study which prepares them (a) for graduate study, and (b) to do clinical work in public schools, in colleges, in medical and paramedical institutions. This program is supplemented by courses from the Department of Psychology and the Department of Education.

It is recommended that students interested in declaring a major in this area should do so as soon as possible and preferably no later than the end of the first semester of the sophomore year.

Students must petition the Department for enrollment in 1220.488, Clinical Practicum II by mid-term of the semester preceding the one during which they expect to complete 1220.488.

Certification by the Maryland State Department of Education and Licensure by the Maryland Boards of Examiners in Speech Pathology and Audiology require a Master's degree in the appropriate area; i.e., speech pathology, language pathology, or audiology.

## Requirements for Matriculation in the Speech and Language Pathology and Audiology Major

Students should first apply and gain admission to Towson State College. While applying for admission to the College, the student may also wish to contact the Speech and Language Pathology and Audiology office for advising. After gaining admission to the College the student should contact the Speech and Language Pathology and Audiology office to have his/her name put on the Pre-Speech and Language Pathology and Audiology Major List. At this time the student must schedule an appointment with a faculty member to discuss the following:

- (1) The nature of the profession.
  - (2) The need of a Master's degree in Speech and Language Pathology and Audiology to be certified by the Maryland State Department of Education.
  - (3) The need of a Master's degree for licensure in Speech and Language Pathology and Audiology to work in hospitals and community clinics in the State of Maryland.
  - (4) The requirement of a year of clinical fellowship.
  - (5) The national certification examination.
  - (6) The procedures for requesting admission to the major.
- The student declares his/her interest by placing his/her name on the pre-major list.

## Pre-Major Requirements

Prerequisites to be completed during the first two years before the student is admitted to the major must include:

1220.105, Speech and Language Development; 1506.310, Phonetics of American English; 1220.400, Anatomy and Physiology of the Auditory and Vocal Mechanism; 1506.402, Hearing and Speech Science; 2001.101, General Psychology.

All students declaring a pre-major in Speech and Language Pathology and Audiology must also have a hearing, language, speech and voice evaluation by the clinically certified and licensed staff. Those students exhibiting a problem must enroll in a personal therapeutic program and make satisfactory clinical progress prior to being admitted in the major. In addition, a student may be requested to obtain an otolaryngological evaluation and a written report submitted to the Department, if a pertinent medically based problem is suspected.

Each candidate for major status will be expected to have a minimum cumulative grade point average of 2.5 on a 4.0 scale for all lower division course work, and a 2.75 average in the above mentioned five courses.

It is important to maintain such high standards of expectation and performance as all persons seeking to practice speech and language pathology and audiology in the State of Maryland must obtain a Master's degree and admission to graduate school is pre-eminently dependent upon excellence in undergraduate performance.

Limited enrollment into the Speech and Language Pathology and Audiology major is due to limitation in the number of clinical practicum experiences available, clinical supervisors, and space. Forty (40) students will be accepted to study in Speech and Language Pathology and Audiology yearly.

The student must submit to the Speech and Language Pathology and Audiology area an official transcript of any academic work pursued at all institutions of higher learning. All of the five pre-major courses listed above must have been completed within the previous ten years and by the time they enter the major in their junior year.

All students meeting the requirements of the above will be placed in rank order according to cumulative grade point average. Admission will be extended to students with the highest cumulative grade point averages.

Prior to College prerequstration, students will be admitted to the Speech and Language Pathology and Audiology major during the Spring semester of their sophomore year contingent upon compliance with the above criteria. Failure to do so will result in automatic forfeiture of admission, for that admitting period, to the area of Speech and Language Pathology and Audiology. Any vacancies thus created will be filled by students from the rank order list.

## Transfer Students

Transfer students must first gain admission to Towson State College and request that their name be put on the Pre-Speech and Language Pathology and Audiology major list. A student may request that her/his application be reviewed at a later Spring semester in his academic career, with the understanding that completion of the degree may be delayed.

Transfer students who have completed the five specific pre-major courses must submit their transcripts to the Department for evaluation for matriculation with major status by February 15. Matriculation in the following Fall semester in the Speech and Language Pathology and Audiology major will be contingent upon their position in the rank order list and satisfactory fulfillment of the hearing, language, speech and voice evaluation requirement.

Requirements

Major 36

36 semester hours from:

1220.105	Speech and Language Development	(3)_____
1220.302	Speech Pathology I	(3)_____
1220.304	Speech Pathology II	(3)_____
1220.305	Stuttering: Etiology & Therapy	(3)_____
1220.306	Speech Pathology III	(3)_____
1220.321	Introduction to Audiology	(3)_____
1220.400	Anatomy & Physiology of the Auditory & Vocal Mechanism	(3)_____
1220.486	Clinical Observations & Techniques	(3)_____
1220.487	Clinical Practicum I	(3)_____
1220.488	Clinical Practicum II	(6-9)_____
1506.310	Phonetics of American English	(3)_____
1506.402	Hearing & Speech Science	(3)_____

(Students must petition the Department for enrollment in 1220.488 by mid-semester of the semester preceding the one during which they expect to complete 1220.488, Clinical Practicum II. 1220.488 is not required for graduation when a second 1220.487 is elected.)

Students are encouraged to elect additional courses such as:

1506.213	General Semantics	(3)_____
1220.341	Clinical Audiology	(3)_____
1220.404	Professional Programs, Problems & Relationships	(3)_____
1220.489	Clinical Counseling in Audiology & Speech Pathology	(3)_____
1220.496	Independent Study in Speech Pathology & Audiology	(1-4)_____
1220.497	Directed Readings in Speech Pathology & Audiology	(1-4)_____

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

MASS COMMUNICATION COURSES (0605)

Lower Division — Undergraduate

- 0605.101 (53.101) INTRODUCTION TO MASS COMMUNICATION (0) A laboratory course designed to introduce the student to the mass communications major at Towson State College. The introduction will include the role of the mass media, careers, and a description of courses available. This information will be obtained through the Dial Access system. (F, W, S)
- 0605.151 (53.151) JOURNALISM IN A FREE SOCIETY (3) Examination of the role of journalism in the mass communication process and its significance in a free society. Prerequisite: English 1501.102. (F, W)
- 0605.201 (53.201) INTRODUCTION TO BROADCASTING (3) An introduction to the concepts of the role of history, science, politics, and economics in the development and present status of broadcasting. (F, W)
- 0605.202 (53.202) INTRODUCTION TO FILM (3) An introduction to motion picture communication, technology, and terminology with film analysis and filmmaking projects. (F, W).
- 0605.211 (53.211) COMMUNICATION PROCESS (3) Introduction to the communication process with emphasis on the

functions of language and the problems of responsibility in communication. (F, W)

- 0605.214 (53.214) INTRODUCTION TO ADVERTISING (3) Review of the contribution made by advertising to the United States economy, and of the principles and practices as applied to electronic and printed media. (F, W)
- 0605.252 (53.252) HISTORY OF JOURNALISM (3) Critical study of the development of the English language press; emphasis on the American press and its role in the political and economic progress of this country. (W)
- 0605.261 (53.261) BASIC TELEVISION TECHNIQUES (3) An introduction to the basic principles, procedures, and techniques of television production. Students will be required to participate on the college television production crew. (F, W, S)
- 0605.265 (53.265) BASIC RADIO PRODUCTION (3) A course structured to introduce the student to the equipment and performance techniques necessary to produce a variety of radio show formats. The student will be required to participate on the campus radio station. Prerequisites: 0605.202, 1506.131. (F, W)
- 0605.267 (53.267) FILM COMMUNICATION (3) An introduction to the techniques and theories of motion picture production. Students design, film, and edit their own projects. Prerequisites: 0605.202 and consent of instructor. (F, W)

Upper Division — Undergraduate and Graduate

- 0605.315 (53.315) BUSINESS AND PROFESSIONAL SPEECH (3) The student will participate in various types of speeches and study discussion, conference techniques, and parliamentary procedure. Prerequisites: Speech 1506.131 or equivalent. (F, W, S)
- 0605.351 (53.351) PUBLIC OPINION AND THE PRESS (3) Journalistic aspects of public opinion and propaganda; the impact of mass communications media on the formation of public opinion. Techniques of polling and testing public opinion.
- 0605.353 (53.353) PUBLICITY AND PUBLIC RELATIONS (3) Provides an awareness and understanding of public relations activities. Students learn publicity techniques and how to organize campaigns. (F, W, S)
- 0605.355 (53.355) NEWSWRITING (3) Introduction to news-writing from the standpoint of style, structure and readability. Prerequisites: 0605.151, and one English Composition course. (F, W)
- 0605.356 (53.356) FEATURE WRITING (3) Preparation of long and short articles, editorials and news features. Prerequisite: One English Composition course and 0605.355. (F, W)
- 0605.358 (53.358) NEWS EDITING AND COPYREADING (3) Practice in editing, headline writing, page make-up and use of pictures and type in newspapers, and editing copy for use on radio and television. Prerequisite: 0605.355 or 0605.356. (F, W)
- 0605.359 (53.359) MAGAZINE PUBLISHING (3) Examination of the principal practices, problems, and trends in magazine publishing through tracing progress of a magazine from copy to bindery. Steps in periodical production stressing emphasis on layout factors. Intensive analysis of magazine markets and case studies of magazine publishing problems. Prerequisite: 0605.151, 0605.355, 0605.356, 0605.358.
- 0605.361 (53.361) ADVANCED TELEVISION TECHNIQUES (3) Advanced techniques in television production and performance for commercial and educational television. Major emphasis on directing. Prerequisite: 0605.261 or consent of instructor. (F, W)

- 0605.363 (53.363) HISTORY OF FILM (3) Exploration of the social, artistic, economic, and technical factors in the development of the motion picture from 1900 to the present. Prerequisite: 0605.202. (F)
- 0605.364 (53.364) AESTHETICS OF THE FILM (3) Survey of film theory and aesthetics of silent, sound and avant-garde motion pictures. Prerequisite: 0605.363 or consent of instructor. (S)
- 0605.367 (53.367) TELEVISION WRITING (3) Training and practice in writing commercials, documentaries and plays for the specific medium of television—commercial and educational. Prerequisites: 1501.102, 1501.204 and 0605.261. (W)
- 0605.385 (53.385) MASS MEDIA IN MODERN SOCIETY (3) Seminar in mass media, concentrating on audience, content and effects of the media. Prerequisites: 0605.151, 0605.202. (F, W)
- 0605.475 (53.475) FILM WORKSHOP (3) Designed primarily to provide experienced or future teachers with background about film so that they may better help pupils to become informed about and to develop critical reactions to the films they view. Prerequisite: Consent of instructor. (First summer session)
- 0605.485 (53.485) NEWSPAPER IN THE CLASSROOM WORKSHOP (3) Sponsored by the member newspapers of the Maryland-Delaware-D.C. Press Association. Designed to demonstrate various methods for practical application of the newspaper as a living textbook and to give teachers background information which will facilitate the use of this teaching tool. Specialized discussion groups are arranged by grade level and subject matter, including remedial reading, and are led by practicing instructors using the newspaper in their classrooms. (Graduate or Undergraduate credit.) Prerequisite: Consent of Instructor for Undergraduates.
- 0605.491 (53.491) INDEPENDENT STUDY IN FILM (1-6) Independent work in film production and research. Production students may work independently, with campus production unit or with professional production company. Prerequisites: 0605.202, 0605.267 or Consent of Instructor. (F, W, S and mini)
- 0605.493 (53.493) INDEPENDENT STUDY IN RADIO (1-6) Independent study in selected areas of radio through directed readings, projects in conjunction with the operation of the student radio station or work with a full-time professional in the community. Selected students may work as laboratory assistants in the 0605.265 Basic Radio Production class. Prerequisites: 0605.265 and/or participation as a staff member on a campus or community radio. (F, W, S and mini)
- 0605.495 (53.495) INDEPENDENT STUDY IN TELEVISION (1-6) Independent study in selected areas of television production and research through selected readings, projects, papers and seminars. Prerequisites: 0605.361 or Consent of Instructor. (F, W, S & mini)
- 0605.496 (53.496) INDEPENDENT STUDY IN JOURNALISM (1-6) Independent study in the varied aspects of newspaper writing. Opportunity will be provided to work under the guidance of professional newspapermen connected with the Baltimore papers. Prerequisites: Open by invitation of the department to qualified students. (F, W, S, mini)
- 0605.497 (53.497) INDEPENDENT STUDY IN PUBLIC RELATIONS (1-6) Independent study in selected areas of public relations through directed readings, projects, papers or seminars. When possible opportunity will be provided for the student to work outside the classroom, under the cooperative guidance for his instructor and a full-time pro-

fessional public relations person in the field of the Student's choice. Prerequisites: Open by invitation of the department to qualified students. (F, W, S and mini)

## GENERAL SPEECH COURSES (SPEECH = 1506; PUBLIC ADDRESS = 1599)

### Lower Division — Undergraduate

- 1506.106 (84.106) VOICE AND DICTION (3) Analysis of articulatory and vocal usage as they relate to spoken language. Improvement of skills in voice, articulation, and pronunciation. (F, W)
- 1506.131 (84.131) FUNDAMENTALS OF SPEECH COMMUNICATION (3) Course is designed to assist the student in developing skills needed in interpersonal and public communication. These skills include effective listening and speaking, expressing social consciousness, ethical responsibility and self identification. (F, W, S)
- 1506.203 (84.203) ADVANCED PUBLIC SPEAKING (3) Principles of speech composition and organization. Study of manuscript, extemporaneous and impromptu speaking. Principles and application of speech analysis and criticism. Prerequisite: 1506.131 or consent of instructor. (F, W)
- 1506.213 (84.213) GENERAL SEMANTICS (3) The effects of language and symbols upon individual adjustment and maladjustment. Semantic applications in audiology, education, speech pathology, and other arts and sciences.
- 1506.216 (84.216) GROUP DISCUSSION (3) Theory and methods of groups discussion; practice in forums, panels, and other forms of group communication. (F, W, S)
- 1599.219 (84.219) PARLIAMENTARY PROCEDURE (1) Brief analysis of history and philosophy of parliamentary law and study and practice of the procedure for conducting and participating in meetings. Fall — even numbered years.
- 1506.221 (84.221) ORAL INTERPRETATION OF LITERATURE (3) General principles of oral reading and the art of interpretation in poetry, drama, and the short story. Prerequisite: 1506.131 or consent of instructor. (F, W)

- 1599.231 (84.231) ARGUMENTATION AND DEBATE (3) Essentials of argumentation; research, analysis, evidence, reasoning, case construction and refutation. Applications in public speaking and in college debate. Prerequisites: 1506.131 or consent of instructor. (F)

- 1506.249-1506.250 (84.249-250) FORENSICS I, II (1, 1) Practical work in debate, oratory, extemporaneous speaking, and other speech projects. Study of national debate questions, and opportunity to participate in forensic activities or a Speaker's Bureau. Prerequisite: Consent of Instructor. (F, W)

### Upper Division — Undergraduate Only

- 1506.349-1506.350 (84.349-350) FORENSICS III, IV (1, 1) Refer to 1506.249, 1506.250 for course description. Prerequisite: 1506.249-250 and consent of instructor. (F, W)
- 1506.375 (84.375) SPEECH IN THE ELEMENTARY SCHOOL (3) A study of speech needs of the elementary school child and current methods and materials used by the classroom teacher in meeting needs. Not open to SPA majors. (F, W)
- 1506.379 (84.379) TEACHING SPEECH AND DRAMA IN THE SECONDARY SCHOOL (3) Problems, materials, methods and techniques in specific speech instruction areas; integration of speech and drama in co-curricular school activities. Open only to students in the student block. (Fall only)

## Upper Division — Undergraduate and Graduate

1506.304 (84.304) **PERSUASION** (3) Theory and practice of linguistic and symbolic persuasion; applications of rhetorical principles in social sciences and formal and informal communication; analysis of rhetoric through discussion. Prerequisite: 1506.131.

1506.310 (84.310) **PHONETICS OF AMERICAN ENGLISH** (3) Analysis of speech sounds of American English and the use of phonetic symbols to record them. Emphasizes ear training, phonetic transcription, and language recordings. (F, W)

1506.320 (84.320) **READERS THEATRE** (3) Oral interpretation of selections from dramatic literature and individual and group reading. Includes principles of selecting, cutting, and programming in literature. Prerequisite: 1506.221 or consent of instructor. (W)

1506.395 (84.395) **INDEPENDENT STUDY IN ORAL INTERPRETATION** (1-6) Independent study in selected areas of oral interpretation through directed readings, projects, papers or seminars. Prerequisites: 1506.221 and consent of instructor. (F, W) (S, by request.)

1506.402 (84.402) **HEARING AND SPEECH SCIENCE** (3) Lectures, readings, and demonstrations designed to introduce the student to the various physical and psychological parameters of speech and hearing and how they are studied. Prerequisite: 1506.310, 1220.400.

1599.403 (84.403) **CLASSICAL AND MODERN RHETORIC** (3) Survey of rhetorical theory from Isocrates to contemporary communication theorists. Particular attention is given to Aristotle, Cicero and Quintilian. Designed to develop standards of rhetorical criticism. (W) — odd numbered years.

1599.405 (84.405) **AMERICAN PUBLIC ADDRESS** (3) History and criticism of two centuries of public address in the United States, the great speakers, their historical environment, their beliefs and effects on American life. Prerequisite: 1506.203 or 2205.145 or consent of instructor. (F) — even numbered years.

1599.406 (84.406) **BRITISH PUBLIC ADDRESS** (3) Public address in Great Britain, the great speakers, their historical environment, their beliefs and effects on American life. Prerequisite: 1506.203 or 2205.121 or consent of instructor. (F) — odd numbered years.

1506.411 (84.411) **INDEPENDENT STUDY IN CHAMBER THEATRE** (1-6) Independent study in selected areas of Chamber Theatre through directed readings, projects, performances, papers or seminars. Prerequisites: 1506.320.

1506.423 (84.423) **ADVANCED ORAL INTERPRETATION OF LITERATURE** (3) Advanced theory and practice of oral interpretation with emphasis placed upon the relationship of the dramatic structure to the interpreter's performance. Prerequisites: 1506.221 and consent of instructor. (W) —

1506.432 (84.432) **THE COACHING AND MANAGEMENT OF FORENSICS** (3) 2nd semester of even-numbered years only. Problems of organizing, financing, and directing the forensic program in schools and colleges. Coaching, schedules, and techniques for debate and individual speech events. Competing philosophies of forensics and secondary school and college-level forensic organization are studied. (W) — even numbered years.

1506.493 (84.493) **INDEPENDENT STUDY IN READERS THEATRE** (1-6) Independent study in selected areas of Readers Theatre through directed readings, projects, papers or seminars. Prerequisite: 1506.320 or consent of instructor. (F, W) (S, upon request.)

1599.495 (84.495) **INDEPENDENT STUDY IN PUBLIC ADDRESS** (1-6) Independent study in selected areas of public address through directed readings, projects, papers, or seminars. Prerequisite: consent of instructor. (F, W, S)

1506.521 (84.521) **EXPERIMENTAL PHONETICS** (3) An advanced course in the study of Phonetic Science. Concerned with the application of experimental methods to study and research in voice and phonetics, especially spectrographic analysis. Includes critical review of research literature in Scientific Phonetics. Prerequisite: 1506.310 or consent of instructor.

## SPEECH PATHOLOGY AND AUDIOLOGY COURSES (1220)

### Lower Division — Undergraduate

1220.105 (87.105) **SPEECH AND LANGUAGE DEVELOPMENT** (3) Analysis of normal speech and language development, including the phonetic, semantic, and syntactic elements. Physiology of speech and language learning. Observation will be required.

### Upper Division — Undergraduate and Graduate

1220.302 (87.302) **SPEECH PATHOLOGY I** (3) Academic information and clinical methods for the problems of articulation and delayed language. Observation will be required. Prerequisite: 1220.105, 1506.310.

1220.304 (87.304) **SPEECH PATHOLOGY II** (3) Academic information and clinical methods for the problems of cleft palate and voice disorders. Observation and participation will be required. Prerequisite: 1220.105, 1506.310.

1220.305 (87.305) **STUTTERING — ETIOLOGY AND THERAPY** (3) Analysis of etiologies, symptoms and therapeutic management of stuttering. Prerequisite: 1220.105.

1220.306 (87.306) **SPEECH PATHOLOGY III** (3) Academic information and clinical methods for the problems of aphasia, mental retardation and cerebral palsy. Observation and participation will be required. Prerequisite: 1220.486.

1220.321 (87.321) **INTRODUCTION TO AUDIOLOGY** (3) Anatomy, physiology and pathologies of the hearing mechanism. Symptoms and causes of hearing disorders. Pure tone air conduction testing and screening methods. Observation and practice will be required. Prerequisites: 1220.105, 1506.402 or consent of instructor.

1220.341 (87.341) **CLINICAL AUDIOLOGY** (3) This advanced undergraduate course will explore basic audiometry; audiogram interpretation; basic principles of audiologic habilitation including school hearing conservation. Prerequisite: 1220.321.

1220.400 (87.400) **ANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VOCAL MECHANISM** (3) Analysis of the anatomical structures involved in the communication processes of Speech, Language, and Hearing. Analysis of the functioning of these structures. Lectures and laboratory sessions will be required. Prerequisite: 1220.105.

1220.404 (87.404) **PROFESSIONAL PROGRAMS, PROBLEMS AND RELATIONSHIPS** (3) Organization and administration of speech pathology and audiology programs in various professional settings; personal, professional and community relationships and responsibilities. Observation will be required. Prerequisite: 1220.487 or consent of instructor.

1220.407 (87.407) **AURAL HABILITATION/REHABILITATION** (3) Theories, objectives and techniques for the teaching of speech reading, speech conservation and auditory training. Observation and practice will be required. Prerequisite: 1220.321.

- 1220.408 (87.408) SPECIAL PROBLEMS SEMINAR — CLEFT PALATE (3) A multidisciplinary approach to all aspects of the patient with a cleft palate which would include lectures on etiology, embryology, speech patterns, otological and audiological considerations, dental and plastic reconstruction, speech therapy and follow-up. Prerequisite: 1220.306.
- 1220.409 (87.409) SPEECH AND LANGUAGE FOR THE DEAF CHILD (3) Principles and techniques for developing speech and language in the deaf child using whole-word and analytical methods; consideration of multiple handicaps; demonstration and observation will be required. Prerequisite: 1220.105, 1220.321, 1220.407 or consent of instructor.
- 1220.410 (87.410) SPECIAL PROBLEMS PRACTICUM — CLEFT PALATE (3) Clinical practice in all aspects of the patient with a cleft palate. Prerequisite: 1220.306.
- 1220.411 (87.411) SEMINAR/WORKSHOP IN SPEECH PATHOLOGY AND AUDIOLOGY — SPEECH AND LANGUAGE DEVELOPMENT FOR THE SPEECH AND LANGUAGE DEPRIVED (6) Diagnostic, therapeutic and methods for the management of children who are deprived in the areas of speech and language. Prerequisite: 1220.306, or professional experience and/or consent of instructor.
- 1220.414 (87.414) SPECIAL PROBLEMS SEMINAR (3) Concentrated investigation of particular problems in the field of speech pathology and audiology. The problems will vary each semester the course is offered. (Individuals having professional experience may receive credit through a proficiency examination.) Prerequisite: Professional experience or invitation of department.
- 1220.421 (87.421) SEMINAR/WORKSHOP — HEARING IMPAIRED (6) Psychology and science of hearing and anatomy of the hearing mechanism will be reviewed. Investigation of communication, educational, vocational, psychological and social problems of the hearing impaired as these relate to personal adjustment in today's society. The study of the principles and techniques of teaching the hearing impaired.
- 1220.441 (87.441) INDUSTRIAL AND ENVIRONMENTAL AUDIOLOGY (3) This course is designed to provide extensive information in the area of noise and its effect on hearing. Industrial, community, and environmental aspects will be covered including hearing conservation programs. Prerequisite: Consent of instructor.
- 1220.451 (87.451) AUDIOLOGICAL MANAGEMENT OF THE EXCEPTIONAL CHILD (3) Principles and techniques for identifying and evaluating hearing impaired children; consideration of multiple handicaps; demonstration and practice. Prerequisites: 1220.341 or consent of instructor.
- 1220.461 (87.461) HEARING AID SELECTION PROCEDURES AND SPEECH AUDIOMETRY (3) Nature and types of amplifying systems used with the hearing impaired. Electroacoustic characteristics, principles and methods of selection and usage. Use of speech signals in evaluating the auditory system. Prerequisite: Consent of instructor.
- 1220.481 (87.481) DIALECTS OF ETHNIC GROUPS IN AMERICAN SOCIETY (3) Academic information that will help the student acquire an understanding of the cultural and social aspects of certain ethnic groups in American society and train the student in assessment of divergent language patterns and effective management of a language program based on the individual needs of the population served. Prerequisite: 1220.302.
- 1220.485 (87.485) VOICE AND ARTICULATION SEMINAR (3) Investigation of nature and treatment of organic and functional voice and articulation disorders in children and adults, including vocal strain, nodules, carcinoma, manage-

ment of the laryngectomized, and dysarthria. Prerequisite: 1220.486.

- 1220.486 (87.486) CLINICAL OBSERVATIONS AND TECHNIQUES (3) Observation and application of techniques essential to the management of hearing, language, and speech disorders. Prerequisites: 1220.302, 1220.304.
- 1220.487 (87.487) CLINICAL PRACTICUM I (1-3) Clinical observation of and practice in therapeutic procedures with various types of speech, language and/or hearing disorders in the Towson State College Speech and Hearing Clinic. Students may also be assigned a practicum in the Lida Lee Tall School and/or various centers that offer speech, language or hearing therapy, such as hospitals or private agencies. (Repeatable once. Must be taken second time if 1220.488 is not elected.) Prerequisites: 1220.486 and consent of chairperson.
- 1220.488 (87.488) CLINICAL PRACTICUM II (6-9) Students assigned to an approved therapy program for observation and practicum experience. The student will earn a minimum of 150 of the 300 clinical clock hours required for certification. Prerequisites: 1220.487 and consent of chairperson. (Only 3 credits will count toward satisfying the requirements for a major in Speech Pathology and Audiology.)
- 1220.489 (87.489) CLINICAL COUNSELING IN AUDIOLOGY AND SPEECH PATHOLOGY (3) Systems of directive and nondirective counseling utilized by speech and hearing clinicians for the management of organic and nonorganic disorders. Techniques of interviewing, case history recording, and the conditioning of semantic reactions through interpersonal interaction. Prerequisite: 1220.486.
- 1220.496 ([87.496]) INDEPENDENT STUDY IN SPEECH PATHOLOGY AND AUDIOLOGY (1-4) Independent study in selected areas of Speech Pathology and Audiology through projects, papers and seminars. A portion of the course may involve assisting in laboratory experiences in connection with Speech Pathology and Audiology course(s). Prerequisites: Invitation of Department only and upper division standing.
- 1220.497 (87.497) DIRECTED READINGS IN SPEECH PATHOLOGY AND AUDIOLOGY (1-4) Directed readings in selected areas of Speech Pathology and Audiology in order to provide for the individual a comprehensive coverage of a special area within the broader range of communication disorders or to meet special needs of students. Prerequisites: Upper division standing and by invitation of the department.

## Graduate Division

- 1220.501 (87.501) LANGUAGE DISORDERS OF CHILDREN (3) Investigation of mental retardation, emotional disturbance and hearing loss in children in terms of speech and language disorders. Prerequisite: 1220.105 and 1220.302.
- 1220.505 (87.505) NEUROPATHOLOGIES OF SPEECH (3) Etiology, nature and management of cerebral palsy and minimal brain damage in children, and dysphasia in adults. Prerequisite: 1220.306 and 1220.487.
- 1220.507 (87.507) DIAGNOSTIC METHODS IN SPEECH PATHOLOGY (3) Standardized and non-standardized techniques for testing the speech, language and general intellectual functioning of children and adults. Practicum experience in speech evaluations and report writing. Prerequisite: 1220.485 and 1220.505.
- 1220.511 (87.511) APPLICATION OF LINGUISTICS TO SPEECH PATHOLOGY (3) Investigation of traditional and contemporary research in the area of psycholinguistics and generative grammar. Application of this to diagnosis and management of those with language disorders. Prerequisites: Graduate Standing.



- 1220.513 (87.513) INTRODUCTION TO RESEARCH IN SPEECH PATHOLOGY AND AUDIOLOGY (1) Discussion of research methods, techniques and needs in speech pathology and audiology. Reading and understanding professional journal articles. Prerequisite: Consent of instructor.
- 1220.521 (87.521) DIAGNOSIS OF DISORDERS OF THE AUDITORY SYSTEM (3) This advanced course is designed to provide graduate students in Audiology and Speech Pathology with the history, rationale and procedures for audiologically delineating disorders of the auditory system. Prerequisite: Consent of instructor.
- 1220.531 (87.531) PSYCHOACOUSTIC INSTRUMENTATION AND CALIBRATION (3) This advanced course is intended to provide graduate students in Audiology and Speech Pathology with an overview of the devices which form a core of equipment for auditory investigation and some of the principles and problems which accompany their use. Prerequisite: Consent of instructor.
- 1220.541 (87.541) AUDIOLOGY SEMINAR — PSYCHOACOUSTICS (3) This advanced course is intended to provide graduate students in Audiology with an opportunity to pursue indepth students in psychoacoustics. Prerequisite: Consent of instructor.
- 1220.542 (87.542) AUDIOLOGY SEMINAR — BIOACOUSTICS (3) This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies in bioacoustics. Prerequisite: Consent of instructor.
- 1220.543 (87.543) AUDIOLOGY SEMINAR — NEUROPHYSIOLOGY OF HEARING (3) This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies in neurophysiology of audition. Prerequisite: Consent of instructor.
- 1220.544 (87.544) AUDIOLOGY SEMINAR—CURRENT TOPICS IN AUDITION (3) This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies of current interest in audition. Prerequisite: Consent of instructor.
- 1220.645 (87.645) ADVANCED CLINICAL PRACTICE (2) Experience in the College Clinic as well as externship in public schools, hospital clinics and rehabilitation settings with the speech defective. Introduction to the supervision of undergraduate trainees. Prerequisite: 1220.487 and/or professional experience.
- 1220.695 (87.695) GRADUATE RESEARCH PAPER IN SPEECH PATHOLOGY AND AUDIOLOGY (3) Preparation of extensive paper dealing with a current area of research in the field or with the results of a clinical experiment. Prerequisite: Consent of department.
- 1220.696 (87.696) INDEPENDENT STUDY IN SPEECH PATHOLOGY AND AUDIOLOGY (3) Preparation of extensive paper dealing with professional clinical experiences. Discussions of techniques, innovations, methods employed and recommendations for improvements. Prerequisite: Professional experience.



# Economics and Political Science

Professors: BELGRAD, EHRLICH, GROSSMAN (Chairperson),  
MERANI, SANBORN

Associate Professor: DENT, EKPO, KUMAR, PAUL, SHIN,  
WEINTRAUB

Assistant Professors: GERMAN, MARZOTTO

Instructor: DORN

Visiting Lecturer: ROCOURT

The program of courses in political science and economics aims to promote understanding of the nature of political relationships and the workings of economic systems. The majors in political science and economics are designed to provide preparation for advanced study and to provide the foundation for careers in public administration, law, public relations, business, and research.

## Economics Major

Thirty credit hours are required for the major in economics including 2204.101, 2204.102, 2204.301, 2204.309, 2204.323, and 2204.335.

## Economics Minor

Twenty-four hours are required for the minor in economics, including 2204.101, 2204.102, and 2204.323.

Economics majors are urged to take the following electives: 1501.331, Advanced Composition or 1501.334, Advanced Informal Writing and 0605.315, Business and Professional Speech.

Six hours' credit toward the economics major or minor may be taken in the following: 0506.332, Advanced Corporate Finance; 0506.371, Principles of Transportation; 0506.481, Industrial Relations; 2206.231, Economic Geography; 2205.417, 416, Economic History of Europe; 2205.365, The Agricultural Era of America; 2205.366, The Industrial Era of America; 0701.235, Fundamentals of Computing; and 1701.377, Mathematical Models.

Economics and mathematics. Economics majors who do not plan graduate study in economics must take 1701.111, Algebra for Applications, or 1701.115, or 1701.116, or 1701.119. Also recommended is 1701.211.

Those who do plan graduate study in economics are advised to take 1701.273, Calculus I and II (and the appropriate prerequisites) as well as other advanced mathematics courses.

Students who major in both economics and mathematics may count up to twelve hours of specified mathematics courses towards the 30 hours required for the economics major. Further details are in this Catalog under Mathematics.

## Political Science Major

Thirty credit hours are required for the major in political science, including six hours from among 2207.101, 2207.103, 2207.107 or 2207.137 and three hours from among 2207.455, 2207.456, 2207.481, 2207.487 or 2207.491. Twenty-one hours must be taken at the upper division.

Twenty-four hours are required for the minor in political science, including six hours from among 2207.101, 2207.103, 2207.107 or 2207.137 and fifteen hours of upper division courses.

Normally a student who transfers to Towson State College with senior standing will be expected to complete fifteen hours of upper division political science courses here to satisfy the requirements for a major; those who

transfer below senior standing normally will be expected to complete twenty-one hours of upper division political courses.

## ECONOMICS COURSES (2204)

### Lower Division — Undergraduate

2204.101 (24.101) ECONOMIC PRINCIPLES AND PROBLEMS I (3) How private enterprise determines what is produced, price, wages, profits. Supply and demand. Competition and monopoly. Labor unions, income distribution. Farm policy. The role of the government in our economy.

2204.102 (24.102) ECONOMIC PRINCIPLES AND PROBLEMS II (3) Inflation and unemployment — causes and remedies. Money and banking. Government spending and taxation. International trade. Prerequisite: 2204.101.

2204.201 (24.201) ECONOMICS OF HEALTH (3) Study of the current structure of the delivery of health services and methods of financing health expenditures. Current issues in the economics of health. This course does not fulfill social science requirement in economics. Prerequisite: 2204.101 or consent of instructor.

2204.211 (24.211) ECONOMICS OF POVERTY AND DISCRIMINATION (3) Study of the causes of poverty. How poverty and discrimination are interrelated. An analysis of existing and proposed programs to alleviate poverty and discrimination. Prerequisite: 2204.101 and 2204.102.

### Upper Division — Undergraduate Only

2204.301 (24.301) FUNDAMENTAL STATISTICS FOR ECONOMICS I (3) Analysis and presentation of business and economic data; frequency distribution; measures of central tendency and variability; sampling and estimation of parameters; testing of hypotheses; simple regression analysis; measuring changes in price. Prerequisites: Mathematics 1701.115 or equivalent. (Not open to freshmen)

2204.302 (24.302) FUNDAMENTAL STATISTICS FOR ECONOMICS II (3) Bayesian decision theory; probability models and decision making; analysis of variance; measuring and forecasting economic change with time series; forecasting and decisions by partial and multiple regression models; stochastic functions; statistical quality control. Prerequisites: 2204.301 or Mathematics 1701.231 or equivalent. (Not open to freshmen)

2204.309 (24.309) INTERMEDIATE PRICE THEORY (3) Determination of prices, output, wages, resource allocation. Theory of the firm. Theory of competition, monopolistic competition, oligopoly, and monopoly. Prerequisite: 2204.102.

2204.311 (24.311) GOVERNMENT AND ECONOMIC LIFE (3) The rationale of government control and regulation of private enterprise. Maintenance of competition, antitrust policy. Public utility regulation. Prerequisite: 2204.102.

2204.315 (24.315) ECONOMIC DEVELOPMENT (3) Theory of economic growth. Problems and programs relating to underdeveloped countries. Prerequisite: 2204.102.

2204.323 (24.323) MONEY AND BANKING (3) Organization and function of the money, credit and banking system of the United States; banking institutions, Federal Reserve System; the relation of money and credit to prices; foreign exchange. Prerequisite: 2204.102.

2204.327 (24.327) INTERNATIONAL ECONOMICS (3) International trade theory; balance of payments, problems, and adjustment mechanism; foreign exchange; foreign trade

policy; theory of tariffs and other trade restrictions; international monetary system and organization; trade and economic growth. Prerequisite: 2204.102.

2204.331 (24.331) COMPARATIVE ECONOMIC SYSTEMS (3) Contemporary economic systems with emphasis on methods of social control. Capitalism, socialism, communism. Economic planning. Prerequisite: 2204.102.

2204.335 (24.335) MACROECONOMIC THEORY (3) The overall level of output, prices, employment, interest rates, Keynesian economics. Prerequisite: 2204.102.

2204.337 (24.337) PUBLIC FINANCE (3) Principles of taxation, government expenditure and public debt; relationship of fiscal policy to income and growth. Prerequisite: 2204.102.

2204.351 (24.351) URBAN ECONOMICS (3) Economic bases for the existence of metropolitan areas. The economy of the metropolitan area; its growth, income distribution, economic stability. Transportation and land use patterns. Social and other problems of metropolitan areas. Application of elementary price theory to the analysis and solution of urban issues and problems. Prerequisite: 2204.102.

2204.381 (24.381) LABOR ECONOMICS AND LABOR RELATIONS (3) The determination of wages. Labor unions: history, structure, activities, effects. Government labor policy. Prerequisite: 2204.102.

2204.401 (24.401) HISTORY OF ECONOMIC THOUGHT (3) Development of economic theory; eighteenth and nineteenth century classical schools. Modern economic literature on price, investment, and employment. Prerequisite: 2204.102.

2204.407 (24.407) BUSINESS CYCLES AND FORECASTING (3) Business cycle theory; measuring economic activities; policy proposals for controlling economic fluctuations. Prerequisite: 2204.323 or 2204.335.

2204.451 (24.451) INTRODUCTION TO MATHEMATICAL ECONOMICS (3) Intended primarily for students planning graduate education in Economics. A study of the fundamental mathematical methods widely used in Economics: calculus and algebra. Emphasis is on optimization theory; economic examples are used throughout. Prerequisite: 2204.309, 2204.335, or permission of instructor and 1701.211 or 1701.274.

### Upper Division — Undergraduate and Graduate

2204.490 (24.490) INDEPENDENT STUDY (1-3) Individual and supervised study in selected areas of economics. Admission by permission of instructor.

2204.493 (24.493) WORKSHOP ON ECONOMIC EDUCATION (3) Designed to help teachers and school administrators gain a better understanding of the economic workings of the society in which we live. Prerequisite: Consent of the instructor.

2204.495 (24.495) PROSEMINAR ON ECONOMIC ISSUES (3) Research and writing of papers on an economic issue selected by the instructor. Prerequisites: 2204.309, 2204.323, and 2204.335.

### POLITICAL SCIENCE (2207)

Each 100 level course — 101, 103, 107, 137 — is at the introductory level. Each may be taken without prerequisites. Each fulfills the general education requirement.

### Lower Division — Undergraduate

2207.101 (68.101) INTRODUCTION TO POLITICAL SCIENCE

(3) The origins of modern governments. The nature of constitutions and constitutionalism. A definition and interpretation of politics. Prerequisite: Sophomore standing.

2207.103 (68.103) AMERICAN NATIONAL GOVERNMENT (3) Structure and functions of the government of the United States and the problems involved in the extension of the scope of democratic government in our contemporary life.

2207.107 (68.107) INTRODUCTION TO INTERNATIONAL RELATIONS (3) An introductory examination of principles of legal, political, and social relations among nations.

2207.137 (68.137) INTRODUCTION TO COMPARATIVE POLITICS (3) The study of politics is introduced through an examination of different political systems. The activities of parties, movements, and pressure groups are examined in the context of different social, political, and economic frameworks.

2207.207 (68.207) STATE GOVERNMENT (3) Historical background, state constitutions, and the legislative, executive and judicial branches of government. Problems of state administration and federal-state relations. Prerequisite: 2207.103, or consent of the instructor.

### Upper Division — Undergraduate and Graduate

Students may be admitted to upper division courses without the listed prerequisites after obtaining the consent of the instructor.

2207.303 (68.303) THEORY OF INTERNATIONAL POLITICS (3) The theories of mutual relations of states. Elements of national power; international politics as a struggle for power. Restraints upon the struggle for power. Prerequisite: 2207.107 or History 2205.242.

2207.305 (68.305) URBAN GOVERNMENT AND POLITICS (3) The political history of American cities from the eighteenth century through the recent reform movement. City charters, home rule, types of executives, political machines. The metropolitan area. Prerequisite: 2207.103.

2207.307 (68.307) CONTEMPORARY INTERNATIONAL POLITICS (3) An examination of the conduct of international relations by the Western, the Communist, and the non-aligned blocs in the Post-World War period. Prerequisite: 2207.303.

2207.337 (68.337) COMPARATIVE GOVERNMENT OF FOREIGN POWERS: THE WESTERN WORLD (3) An examination of the problems of modernization and stable constitutional rule in England, France, Italy, and Germany. Prerequisite: 2207.101 or 2207.137 or consent.

2207.338 (68.338) COMPARATIVE GOVERNMENT OF FOREIGN POWERS: RUSSIA AND THE EAST (3) Constitutional and legal processes of Russia, Japan, China and other Eastern powers. Prerequisite: 2207.101 or 2207.137 or consent of instructor.

2207.339 (68.339) COMPARATIVE POLITICAL SYSTEMS (3) The course will attempt to bring together the analytical concepts and methodological techniques that may be applied to the study of political systems in a comparative sense. Prerequisite: 2207.103 or 2207.137 or consent of instructor.

2207.341 (68.341) AFRICAN GOVERNMENT AND POLITICS (3) An examination of the rise of African nationalism and the emergence of new states in Africa. Attention is directed to the influence of colonial rule and traditional political institutions on the development of party politics, patterns of government, and Pan-African ideas. A trend towards the military rule, political problems of the inde-

- pendent Africa, and the efforts of each country to build a strong and viable political system are emphasized. Prerequisite: Any Political Science course or consent of instructor.
- 2207.351 (68.351) THE GOVERNMENT AND POLITICS OF LATIN AMERICA (3) An examination of the process of conflict resolution emphasizing the internal dynamics of the political process in Latin America. Emphasis is placed on the contemporary problems of civilian and military rule in Mexico, Brazil, Chile, Columbia, and Argentina. Prerequisite: 2207.101 or 2207.137 or consent of instructor.
- 2207.355 (68.355) THE LATIN AMERICAN POLICY OF THE UNITED STATES (3) Diplomatic, political, and economic relations between the United States and Latin America from Independence to the present. Policies such as the Monroe Doctrine, Pan-Americanism, the Good Neighbor Policy, and the Alliance for Progress are discussed in terms of security, economic interests, and the problems of promoting stable democracies in Latin America. Prerequisite: 2207.101 or 2207.137 or consent of instructor.
- 2207.359 (68.359) POLITICAL AND SOCIAL ASPECTS OF REVOLUTION (3) Nature and function of violence and revolution in modern social systems. Prerequisite: 2207.101 or 2207.137 or consent of instructor.
- 2207.361 (68.361) POLITICAL BEHAVIOR (3) The purpose of this course is to introduce the student to the substantive theory and methodology of behavioral analysis. Topics include voting behavior, elite behavior, and an analysis of types of political conflict. Prerequisite: 2207.101 or consent of instructor.
- 2207.375 (68.375) PUBLIC ADMINISTRATION (3) Administration as a central element of contemporary society, with special reference to the problems of government organization, control, personnel, finance, and public relations. Prerequisite: 2207.103.
- 2207.381 (68.381) THE PRESIDENCY (3) A discussion of the origin of the office, the selection of the President and policy-making in the executive branch. Prerequisite: 2207.103.
- 2207.383 (68.383) CONGRESS (3) An investigation of the relations of Congress with the other branches of government and with the political parties and interest groups. The course also examines the relationships between a member of Congress and his constituency as well as the internal dynamics of Congress. Prerequisite: 2207.103.
- 2207.401 (68.401) INTRODUCTION TO LAW (3) The legal processes in the United States. This course is designed primarily for the liberal arts student. Prerequisite: Sophomore standing and one course of introductory political science.
- 2207.417 (68.417) AMERICAN POLITICAL PARTIES (3) Origin and development of the American two-party system. The activities of pressure groups and organizations, and their effects upon the party system. Prerequisite: 2207.103 or consent of instructor.
- 2207.418 (68.418) CONSTITUTIONAL LAW (3) A study of the constitution of the United States based on leading judicial decisions interpreting the constitution and statutes from 1789 to the present. Prerequisite: 2207.103.
- 2207.427 (68.427) POLITICAL THEORY I (3) Political thought in the West from the Greeks to the end of the sixteenth century. Prerequisite: 2207.101 or consent of instructor.
- 2207.428 (68.428) POLITICAL THEORY II (3) Political philosophers and their writings since the sixteenth century. Attention given to the conflict of ideologies in the twentieth century. Prerequisite: 2207.101 or consent of instructor.
- 2207.430 (68.430) POLITICAL IDEAS OF SOCIALISM AND COMMUNISM (3) This course deals with selected topics in the political theory of socialism and communism including socialism and the ancient regimes, socialism and political organization, Russian, Leninist and Stalinist theory, and socialist ideas in the post cold war period. Prerequisite: 2207.428.
- 2207.432 (68.432) UNITED STATES-SOVIET RELATIONS (3) Diplomatic, cultural, and economic relations between the U.S.S.R. and the U.S. Emphasis on the period since 1933 with a careful study of the effects of the Second World War upon the balance of power. Prerequisite: Any 100 level political science course or consent of instructor.
- 2207.435 (68.435) AFRICA IN WORLD POLITICS (3) The role of African nations in the nuclear age, and their efforts to achieve unity. Prerequisites: 2207.341 or consent of instructor.
- 2207.439 (68.439) UNITED STATES FOREIGN POLICY IN SOUTHEAST ASIA (3) American foreign policy in Southeast Asia in the Post World War II period. Prerequisites: 2207.303, and History 2205.110, 146, or consent of instructor.
- 2207.441 (68.441) CONTEMPORARY UNITED STATES-WESTERN EUROPEAN RELATIONS (3) Emphasis will be on NATO, the European Economic Community, and the Anglo-American efforts to create an Atlantic partnership between Europe and the United States. Prerequisite: 2207.103 or 2207.137, or consent of instructor.
- 2207.445 (68.445) UNITED STATES FOREIGN POLICY IN SOUTH ASIA (3) A discussion of American foreign policy in South Asia mainly since 1945. Emphasis will be on India and Pakistan. Prerequisite: 2207.303, History 2205.109, 146, or consent of instructor.
- 2207.450 (68.450) GROUP POLITICS AND PUBLIC OPINION (3) The role of pressure groups and public opinion in the American political system. Prerequisite: Junior standing and nine hours of political science, or consent of instructor.
- 2207.455-456 (68.455-456) INTERNATIONAL LAW AND ORGANIZATION I, II (3, 3) An examination of the theories and the development of international law up to the present. The character of the modern state system, the role of international organizations, and international law and resort to force. Prerequisites: 2207.303, and History 2205.242, or consent of instructor.
- 2207.461 (68.461) RESEARCH METHODS IN POLITICAL BEHAVIOR (3) The major emphasis in this course will be on the use of quantitative techniques in political research. Topics include survey research, the use of computers, and statistical analysis. Prerequisite: Any course at 100 level.
- 2207.465 (68.465) EDITORIAL WORK — TOWSON STATE JOURNAL OF INTERNATIONAL AFFAIRS (1) (One per semester — four semester limit.) Members of the Editorial Board of The Towson State College Journal of International Affairs prepare the issues of that journal under the supervision of the faculty advisors. Admission by consent of the instructor only.
- 2207.470-479 (68.470-479) SPECIAL TOPICS IN POLITICAL SCIENCE (3) An examination of current topics in political science. The content of the course will depend upon mutual faculty and student interest. Prerequisite: 2207.101 and consent of instructor. (Not for Graduate Credit.)
- 2207.482 (68.482) SEMINAR IN POLITICAL SCIENCE (3) Various methods and techniques of research in political science, culminating in the preparation of a seminar paper.

Prerequisite: eighteen semester hours in political science, or consent of instructor.

2207.485 (68.485) DEMOCRATIC THEORY SEMINAR (3) This course attempts to trace the sources of Democratic Theory to their 16th century origins and to analyze the variants to that theory which have been proposed since that time. Prerequisite: 2207.428.

2207.490 (68.490) INDEPENDENT STUDY (3) Individual and supervised study in selected areas of political science. Admission by consent of instructor.

2207.491 (68.491) SEMINAR IN CONTEMPORARY UNITED STATES FOREIGN POLICY (3) An examination of the

nature, basis, and instruments of American foreign policy in the contemporary age. The formulation, control, and execution of American foreign policy will also be noted. Prerequisites: 2207.303, and History 2205.146, or consent of instructor.

2207.493 (68.493) PRACTICUM IN POLITICS (3-9) This course is designed to familiarize students with practical working of political and governmental institutions. The flexibility in time and credit arrangements will allow a variety of political practice (or internships) in which students can combine observation of "politics in action" with discussions and generalization of the observed. Prerequisite: Junior standing, major in political science, and consent of the department.



# Education

*Professors:* BARBOUR (Director of Laboratory Experiences), BINKO (Associate Director of Laboratory Experiences), BRANDWINE, BROYLES, BURRIER (Graduate Coordinator, Secondary Education), CORNTHWAITE, COX, DUMAS, ELY-FLICKINGER, GUTKOSKA (Director of Reading), B. HAUSERMAN (Associate Dean, Director of Teacher Education), N. HAUSERMAN (Director of Research, Lida Lee Tall Learning Resources Center), JESSUP, (Chairperson, Department of Secondary Education), KILEY, KIMSEY, KJER (Graduate Coordinator, Early Childhood Education), LEWIS LINDNER, VAN NORMAN (Director of Professional Programs), WALL WESLEY, WILLIAMS (Graduate Coordinator, Elementary Education), WILLIS.

*Associate Professors:* BELLOWS, BRAMBLETT, BOND (Chairperson, Department of Early Childhood Education), BRODBELT, COHEN, COLIMORE, FRIEMAN, GARNER, GEHRING (Coordinator of Educational Technology), HANSON, HELFRICH, HOLMES (Chairperson, Department of Elementary Education), FINK, LINDSAY, NICHOLAS, RAY B. TAYLOR Director, Lida Lee Tall Learning Resources Center), M. TAYLOR, TRITCH, VELDER, VLANGAS

*Assistant Professors:* BEHLING, BEINER, BLAKE, BOYD, CARPENTER, COHN, KARFGIN, LAWLOR, LOUDERMILK, MARTIN, MAY, OLSON, O'NEILL, POLLACK, POUR, SHORES, SMITH, SUHORSKY, TROUPE, WATERS, WILNER (Librarian, Lida Lee Tall Learning Resources Center).

*Instructors:* BALDWIN, LEONARD, LYONS, MCGILL, NASS, PATRICK, SIMON, SLACUM.

*Visiting Lecturers:* LAMB, LUDLOW.

## LIDA LEE TALL LEARNING RESOURCES CENTER

The Lida Lee Tall Learning Resources Center (LLTLRC) is a unique and special public elementary school in the Maryland educational system, exerting an increasingly significant influence in the field of education. With a focus on educational research, Lida Lee Tall contains a Parent Lounge Program for infants and two year olds, a Day Care Center, Nursery School, Kindergarten, grades one through six, and a special unit of atypical children from the Regional Institute of Children and Adolescents.

As a department of the Education Division of Towson State College, functions, directions, and goals of the Center have been fluid, in order to provide direction for educators in the continuing challenge of educational inquiry.

The Lida Lee Tall Learning Resources Center within the practical limits of time, finances, and individual commitment attempts to meet the following goals or standards of professional excellence:

1. to provide a comprehensive focus on all aspects of reading and the language arts, as well as utilizing achievement goals in all areas of the curriculum.
2. to highlight an individualized, humanistic approach to education.
3. to preserve a philosophy which values self-direction, responsibility, and has a positive regard for the dignity and self-worth of each child.
4. to develop a unified sense of community because of small class size and the positive values of having children from a variety of cultural and socio-economic backgrounds.
5. to have experienced qualified faculty having expecta-

tions tailored to the individual needs of children and who value the importance of all aspects of the growth of children, e.g., physical, social, emotional, and intellectual.

6. to maintain and expand an interest in exploring and investigating innovative educational concepts.
7. to maintain program flexibility utilizing college resources and personnel, as well as serving the teacher education program of Towson State College.
8. to provide in-depth opportunities for learning through discovery and problem solving methods, while encouraging an open-minded attitude with reference to other educational methods and techniques.
9. to maintain an active program providing opportunities for parent involvement and participation, where responsibilities are shared.
10. to meet the responsibilities of its service role as a center for observation, demonstration, and research for all interested groups or individuals.
11. to participate in community, Lida Lee Tall and Towson State College activities as an active member of the Education Division of Towson State College.
12. to maintain a high level of professional skill and competence by actively continuing advanced professional study.

The Lida Lee Tall Learning Resources welcomes inquiries from students, faculty, or anyone interested in exploring the parameters of the educational milieu.

## Educational Technology Center

A service-oriented Educational Technology Center offers faculty and students an opportunity to use the latest multimedia equipment in the design and production of self-instructional curriculum materials. The center seeks to meet the increasing need for alternative methods for carrying out instructional requirements. Consultation and advisement on all aspects of media is available to faculty and students; inquiries are invited and welcome.

## THE TEACHER EDUCATION PROGRAM

The Teacher Education program is designed to help the student mature in the varied understandings and competencies needed by the beginning teacher. Building upon the foundation of a sound general education, the student is guided toward an understanding of the child, the school, and the educative process. Teacher Education students may include in their professional program such experiences as the following: observation and participation in open space schools, as well as self-contained classrooms; utilization of micro-teaching and video-taping; and familiarization with social agencies in the school community. Increasingly, efforts are being made to individualize aspects of the student's professional program. All aspects of the programs have as their major objective the development of teachers who are broadly prepared individuals, who work well with children and youth, and who are ready and able to take intelligent action on current educational issues.

## Entering the Program

Students who plan to enter one of the education programs should file an application with the Education Department

Office no later than the second semester of the sophomore year. (Those who transfer to Towson in their junior or senior year should file an application in their first semester at Towson.) Students must update their application forms regularly. To be eligible, students must be in good standing, have a college cumulative average of 2.00 plus and satisfy the requirements of the Screening-Advisement committee, which include a speech-hearing check, a proof of language skills test, and certain academic requirements for admission to student teaching. Students should ask for the details of these requirements through their Education advisor.

## Entering Student Teaching

All Teacher Education students must apply for student teaching on a form provided by the Director of Laboratory Experiences during the semester preceding the student teaching experience. The Education Screening Committee regulations regarding speech-hearing checks and language skills proficiency must be met. (Secondary majors must also meet academic requirements of the department involved.)

Each Teacher Education student who has reached the appropriate level of competency is placed in one of eight to ten cooperating school systems. Opportunities are available in rural or urban schools, "self-contained" or "open-space" classrooms, with individual teachers or with teams. Students may be placed in schools where methods courses are taught by a college supervisor, or individual placements are made for students who have taken methods courses on campus. Every attempt is made to secure the available placement that best meets the needs of the individual.

Differentiated student teaching may be taken by students who secure special permission from the Director of Laboratory Experiences.

## Numbering of Courses

The numerical prefixes indicate teacher education programs as follows: 0823 Early Childhood Education, 0802 Elementary Education, 0803 Secondary Education as well as Dual Certification programs. Prefix 0801 designates courses which may apply to a number of programs.

Following the prefix: courses numbered 100 to 299 are termed "lower division"; and courses numbered 300 to 499 are termed "upper division" and normally have prerequisites. Some upper division courses and all courses numbered 500-699 are taken by graduate students.

For detailed information about graduate and evening programs, consult the specialized catalogs for those studies.

## EARLY CHILDHOOD EDUCATION PROGRAM

### Undergraduate Program

The early childhood education major is designed for students who have an interest in working with young children from birth through age eight. It is built on the premise that special capabilities and understandings are necessary to teach successfully in the preschool and primary grades.

The major in early childhood education leads to State Certification to teach nursery school, kindergarten, and primary grades 1-3. It also prepares students for positions in other programs for young children such as day care centers, parent and child centers, child life programs, private and other non-public preschools and primary programs.

To meet both the College and Maryland State Certifica-

tion requirements in general education (academic work) the student must complete a total of 80 hours in the arts and sciences. The required professional education courses in early childhood education total 35 or 36 hours. The remaining hours are elected by the student to obtain the total needed for graduation. For specific details of the early childhood education program see the guide included in this section.

Early Childhood Education majors must confer with an advisor during his/her first semester at Towson State College. Upon entering the Early Childhood Education program each student must take a speech and hearing test and a language proficiency test. A passing score is needed in order to continue through the professional sequence.

In some cases, supplementary course work may be required of students who fail to demonstrate rudimentary reading and writing proficiencies.

Deviations from the program pattern for early childhood education majors are permitted only with the consent of the Chairman of Early Childhood Education. In addition to the major in early childhood education, a student, by using his elective hours carefully, may develop a major or a minor in a subject matter area.

### Alternate Major in Early Childhood Education — The Evening College

As a service to teachers who wish to pursue work toward a degree in early childhood education while they are on their teaching assignments and to other workers in various programs for young children, the Evening College offers an alternate program during evening and summers for the preparation of nursery school, kindergarten, day care center, and primary teachers which will enable them to major in early childhood education. See Evening College Catalog for further information.

## TOWSON STATE COLLEGE — EARLY CHILDHOOD EDUCATION

Major in ECE, including TSC, Departmental and State Certification Requirements Leading to Certification to Teach and Work with Children Ages Three through Eight Years.

### College and Departmental Course Requirements

#### Art

1001.105	Art in the Culture	(3)_____
	Elective	(3)_____

#### English

1501.102	Freshman Composition	(3)_____
	Elective	(6)_____

#### Music

1005.101	Introduction to Music Literature	(3)_____
	Elective	(2)_____

#### Speech

1220.105	Speech and Language Development	(3)_____
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#### Science

0401.101	Fundamentals of Biology	(4)_____
1901.101	Physical Science I	(4)_____
0401.303	Life Science OR	
1901.303	Earth-Space Science	(3)_____

#### Mathematics

1701.204	Fundamental Concepts of Arithmetic	(3)_____
1701.205	General College Mathematics	(3)_____

## Psychology

2001.101	General Psychology	(3)_____
2001.211	Child Psychology	(3)_____
2001.201	Educational Psychology	(3)_____

## History

Elective	(6)_____
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## Geography

2206.101 or 102	Elements of Geography	(3)_____
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## Sociology

2208.101	Introduction to Sociology	(3)_____
	Elective	

## Health

1201.101	Current Health Problems	(3)_____
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## Physical Education

Elective	(2)_____
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TOTAL GENERAL EDUCATION	(69)_____
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NOTE: To meet certification requirements, students must choose 11 additional hours in academic subjects (Art & Sciences) for a total of 80 semester hours of academic work.

TOTAL NUMBER HOURS REQUIRED IN  
ACADEMIC SUBJECTS AT LEAST 80

## Academic Electives

Select other courses in Sociology, Psychology, Music, Art, Speech and Drama, Health, Foreign Language, Political Science, Economics, Philosophy, Geography, Government, Science, English, History, and Theatre.

## Professional Teacher Education Courses — Major in Early Childhood Education Requirements

0823.101	The Young Child as a Learner	(3)_____
0823.341	Professional Block I	(4)_____
0823.342	Professional Block II	(4)_____
1701.321	Professional Block II — Teaching Mathematics in ECE	(2)_____
0823.361	Professional Block II — Teaching Reading in ECE	(3)_____
0823.343	Professional Block III	(2)_____
0823.351-352	Student Teaching Two terms of 8 weeks each on two different age or grade levels (NS-KDG/Primary)	(10)_____
0801.401	Foundations of Education	(3)_____
	Approved elective for ECE	(3)_____

TOTAL NUMBER PROFESSIONAL REQUIREMENTS  
FOR MAJOR IN EARLY CHILDHOOD  
EDUCATION AT LEAST 80

## Approved Elective Courses for Early Childhood Education Majors

0801.417, Child Lit. (3); 0823.421, Prob. in ECE (3); 1001.371, Art and the Child (2); 1005.307, Tch. Mus. in Elem School (2); 0823.301, Mat. and Exp. for Young Child, (3); 0823.355, Differentiated Stud. Tch. in ECE (1-8); 0823.411, Teachers and Parents: Partners in ECE (3); 0823.413, Infants and Children Under Three (3); 0823.415, Day Care Center (3); 0823.417, Learning Disabilities in Young Children (3); 0823.419, Measurement and Evaluation in ECE (3).

## EARLY CHILDHOOD EDUCATION COURSES (0823)

### Undergraduate

0823.101 (25.101) THE YOUNG CHILD AS A LEARNER (3)  
Introduction to the developing child and educational programs available for young children. Focuses primarily on the child himself.

0823.102 (25.102) THE CURRICULUM FOR YOUNG CHILDREN (3)  
Curriculum content and methods of teaching in programs for young children. Prerequisite: Child Psychology, Child Growth and Development, 0823.101, or approval of Department of Education.

0823.121 (25.121) LABORATORY EXPERIENCES IN PROGRAMS FOR YOUNG CHILDREN (3)  
Practical application of educational theory through observation of and participation with young children in classroom situations. Concurrent with 0823.102, summers only. Prerequisite: 0823.101 or a course in Child Psychology, Child Growth and Development, or approval of Department of Education.

0823.301 (25.301) MATERIALS AND EXPERIENCES FOR THE YOUNG CHILD (3)  
Stimulating the intellectual, physical, social, and emotional development of young children through the use of varied instructional materials and activities. Prerequisite: Six hours of Early Childhood Education or approval of Department of Education.

0823.341 (25.341) PROFESSIONAL BLOCK I THE RELATED ARTS AND SCIENCES OF THE ARTS (4)  
Interdepartmental instruction by specialists in art, music, physical education and science with emphasis on the personal development of the becoming teacher and coordinated by a faculty member from Early Childhood Education program. Classroom participation. Prerequisite: Open only to Early Childhood Education Majors. Educational Psychology and Child Psychology or approval of Department of Education.

0823.342 (25.342) PROFESSIONAL BLOCK II CURRICULUM ANALYSIS AND METHODS OF INSTRUCTION (4)  
Emphasis on objectives, materials, and methods of teaching the language arts, and social studies in programs for young children. Participation one day weekly in an assigned classroom for young children. Prerequisite: Open only to Early Childhood Education Majors. 0823.341 or its equivalent.

0823.343 (25.343) PROFESSIONAL BLOCK III CURRICULUM CONCEPTS IN EARLY CHILDHOOD (2)  
Parallels student teaching and is concerned with classroom problems encountered in student teaching. Prerequisites: 0823.341 and 0823.342 or the equivalent. Open only to Early Childhood Education Majors.

0823.351, 352 (25.351, 352) STUDENT TEACHING IN EARLY CHILDHOOD (10)  
Assignment in nursery school, kindergarten, and primary grades or other types of programs for young children under expert guidance. Two terms of approximately 8 weeks on two different age levels, four consecutive days weekly. Concurrent with 0823.343.

0823.355 (25.355) DIFFERENTIATED STUDENT TEACHING IN EARLY CHILDHOOD (1-8)  
Student teaching experiences in addition to those in required student teaching courses (0823.351, 0823.352), according to needs and interests of the student. Experiences may be in public schools, or in centers for young children such as Day Care Centers, Parent-Child or Infant Centers, hospitals, or other special programs in early childhood education. Prerequisite: Approval of student's adviser, Chairperson of Early Childhood Education, and Director of Laboratory Experiences.

0823.361 (25.361) TEACHING READING IN EARLY CHILDHOOD EDUCATION (3)  
Teaching reading in early childhood education with special emphasis on early learning



related to the reading process and the teaching of beginning reading. Critical examination of content, procedures, materials in programs for nursery school through third grade. Prerequisite: Major in Early Childhood Education.

0823.403 [25.403] THE CURRICULUM IN PRIMARY EDUCATION (3) The child, curriculum content, methods and materials of teaching, and program organization in the primary school years. Evenings and Summers only. Prerequisite: 6 semester hours of Early Childhood Education. (G)

0823.411 [25.411] PARENTS AND TEACHERS: PARTNERS IN EARLY CHILDHOOD EDUCATION (3) The development of a rationale for improved parent-teacher relationships in early childhood education programs. The role of para-professionals, specialists, and volunteers. Observation, participation, home and school visits by teachers and parents functioning as a team. Prerequisites: Six hours of Early Childhood Education and consent of instructor. (G)

0823.413 [25.413] INFANTS AND CHILDREN UNDER THREE (3) Nature of the infant and the very young child. Types of programs providing care for infants and children under three. Focus on developmental needs. Organization, curriculum, and methods of working with parents and children. Observations. Resource persons from allied agencies. Prerequisites: 6 hours Psychology; 6 hours Early Childhood Education; or approval of Chairperson, Early Childhood Education. (G)

0823.415 [25.415] THE DAY CARE CENTER (3) An interdisciplinary course designed to prepare day care personnel. Resource persons from related agencies will participate. Topics include purposes of day care, problems of organization, administration and supervision, records, programs, community interaction, and parent relations. Field trips and observation of day care centers. Prerequisites: 6 hours of Early Childhood Education or approval of Chairperson, Early Childhood Education. (G)

0823.417 [25.417] LEARNING DISABILITIES IN YOUNG CHILDREN (3) Survey of the nature of learning disabilities in the young child; theoretical positions; current research; neurological aspects involved; major categories; evaluative and remediation procedures are presented. Seminar-discussion and programmed units. Prerequisite: 6 hours of Psychology and 6 hours of Early Childhood Education.

0823.419 [25.419] MEASUREMENT AND EVALUATION IN EARLY CHILDHOOD EDUCATION (3) Backgrounds and principles of assessment in early childhood education. Statistical concepts. Types of instruments and methods for evaluating growth and achievement of young children. Prerequisite: 6 hours of psychology and 6 hours of Early Childhood Education. (G)

0823.421 [25.421] PROBLEMS IN EARLY CHILDHOOD EDUCATION (3) Research findings used as a basis for program planning in nursery school, kindergarten and primary grades; current trends and issues are considered. Prerequisite: student teaching and/or teaching experience in pre-school or primary grades; junior standing; approval of Chairperson, Early Childhood Education. (G)

0823.423 [25.423] LABORATORY EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3) Classroom experiences with children in preschool and primary grades in a variety of teaching-learning situations. Analysis of observations in light of current research. Concurrent with 0823.421. Summers only. Prerequisites: junior standing and approval of Chairperson, Early Childhood Department. (G)

0823.425 [25.425] THE YOUNG BLACK CHILD IN A MULTICULTURAL SOCIETY (3) Exploration of the influences of caste, class and culture on the development of young

children, with implications for Early Childhood Education. Focus on the young black child. Prerequisites: 6 hours psychology and/or sociology, 6 hours of ECE or approval of Department of ECE. (G)

0823.470-479 [25.470-479] SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Early Childhood Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate program coordinator. Each topic may be taken as a separate course.

0823.494 [25.494] TRAVEL AND STUDY: EARLY CHILDHOOD EDUCATION (1-6) A field study, including cultural tours in selected foreign countries, of current Early Childhood Education programs, facilities, and trends. Lectures, observations, and personal interactions. Required participation in planned educational activities and a follow-up paper. Prerequisites: Junior, senior, graduate standing, or consent of the department chairperson. Consent of graduate program coordinator required for graduate degree credit.

0823.495 [25.495] INDEPENDENT STUDY IN EDUCATION: EARLY CHILDHOOD (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: approval of program Chairperson. Graduate credit by consent of graduate program coordinator only.

0823.496 [25.496] DIRECTED READING: EARLY CHILDHOOD EDUCATION (1-4) Independent reading in selected areas of Early Childhood Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Graduate credit by consent of graduate program coordinator only. (G)

G — may be available for graduate credit. See graduate bulletin.

## Graduate Only

0823.509 [25.509] GROWTH AND DEVELOPMENT OF YOUNG CHILDREN (3) Study of findings of current research in growth and development of young children; methods of studying and evaluating behavior; implications of case study data for curriculum improvement. Prerequisite: 2001.511 and approval of the Department of Education.

0823.517 [25.517] LEARNING DISABILITIES IN YOUNG CHILDREN: ADVANCED (3) A clinically oriented course emphasizing psycho-diagnostic techniques designed to meet the needs of experienced teachers who wish special training in identification and remediation of the learning disabled child. Prerequisite: 6 hours ECE (3 hrs must be 0823.417 or permission), 6 hours Psychology (Child and Educational Psych).

0823.521 [25.521] READING IN EARLY CHILDHOOD EDUCATION — ADVANCED (3) Emphasis on contemporary issues; advanced interpretative and critical evaluations of research in reading instruction in light of basic needs, developmental levels, and individual differences in young children. Prerequisites: Undergraduate course in reading and consent of the Department of Education.

0823.547 [25.547] THE TEACHING PROCESS: EARLY CHILDHOOD EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for young children.

Prerequisite: Teaching experience, Psyc. 2001.511 or 0801.501, and consent of Department of Education.

0823.553 (25.553) PERCEPTUAL AND COGNITIVE DEVELOPMENT OF YOUNG CHILDREN (3) Survey of significant research affecting the theory and programs of education for children ages three to eight years. Prerequisites: Psyc. 2001.511 and/or 0823.509 and approval of the Department of Education.

0823.573 (25.573) SEMINAR IN EARLY CHILDHOOD EDUCATION (3) Seminar approach to current practices and trends in curriculum, materials, methods, and organization of educational programs for children ages three through eight years. A seminar paper is required. Prerequisite: Nine hours of graduate work in Early Childhood Education and 0801.691.

0823.599 (25.599) MASTERS THESIS IN EARLY CHILDHOOD EDUCATION

### Master of Education in Early Childhood Education

For more detailed information regarding the Master of Education in Early Childhood Education see the Graduate Studies Catalog.

## ELEMENTARY EDUCATION PROGRAM

### Undergraduate Program

The major in elementary education leads to certification to teach grades 1 through 6, grades 1 through 8 in the middle schools organization, and grade 9 provided content requirements for secondary certification are met. The program is designed to integrate classroom and laboratory experiences in such ways as to prepare students for beginning teaching in public schools.

In meeting the general course requirements and certification requirements the student must complete at least 80 hours in arts and sciences; at least 36 hours in professional education, and electives, to make a total of at least 120 semester hours of "C" or better work. A checklist guide can be found on the next page.

Theory and practice are combined to provide a thorough preparation for teaching, and such preparation must be demonstrated prior to student teaching. Students are required to consult with their elementary education advisors concerning the proficiency tests to be taken. In many cases, supplementary course work may be required of students who fail to demonstrate rudimentary reading and writing proficiencies.

A concentration of related courses or a major in arts or sciences is desirable for the student in elementary education.

Deviations from the program pattern for elementary majors (i.e. in content or sequence of professional education courses) are permitted only with the written consent of the Chairperson of Elementary Education.

Elementary Education Major with Mathematics Minor: Through a cooperative program of the Elementary Education and Mathematics Department, students can use a middle school student teaching experience as a route to elementary certification with a mathematics minor. Interested students should consult with the chairperson of the Elementary Education and Mathematics Departments as early in their college program as possible.

Elementary Majors may arrange programs with minors in other selected areas by arrangement with the chairperson of Elementary Education and the chairperson of the other department concerned. A Geography minor, for example, has been fully developed.

### Master of Education in Elementary Education

For detailed information regarding the Master of Education in Elementary Education see the Bulletin of Graduate Studies.

### Master of Education in Reading

The Master of Education Degree Program in Reading is designed to offer experiences that will improve the teaching of reading at all levels from kindergarten through college. Specifically, the program seeks to offer courses in reading for teachers and administrators who are interested in improving their knowledge of reading and to prepare reading clinicians to teach developmental, corrective, and remedial reading. Furthermore, the program is designed to prepare reading specialists who will be capable of filling leadership roles in reading improvement programs in schools and clinics.

The Course Requirement for the Degree include 0801.621, 0801.623, 0801.625 and 0801.629 and are listed under the prefix 0801 "Other Education Courses." Detailed information regarding the program is given in the Catalog of Graduate Studies.

## ELEMENTARY EDUCATION COURSES (0802)

### Undergraduate Courses

0831.371 ART AND THE CHILD (2-3) Major considerations of art education appropriate to the work of the elementary teacher; experiences in planning and teaching art. (Not for graduate credit.)

### Check List of Degree Requirements for Elementary Education Students

Courses starred (\*) should be completed before Student Teaching.

120 semester hours of C or better work, including at least —

#### A. ARTS AND SCIENCES, 80 hours including:

##### Science — 14 hours<sup>1</sup>

0401.101	Fundamentals of Biology	(4)_____
1901.101	Physical Science I	(4)_____
0401.303	Life Science in Elementary School	(3)_____
1901.303	Earth-Space Science in Childhood Education	(3)_____

##### Psychology (General) — 3 hours

*2001.101	General Psychology	(3)_____
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##### Mathematics — 6 hours

*1701.204	Fundamental Concepts of Arithmetic	(3)_____
*1701.205	General College Mathematics	(3)_____

##### Art — 2 hours

1001.

##### Music — 2 hours

*0832.233	Music Fundamentals	(2)_____
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##### Physical Education — 2-3 hours

*0835.009-	Freshman Physical Education	(1)_____
059		
*0835.101	Sophomore Physical Education <sup>2</sup>	(1)_____
*0835.102	Sophomore Physical Education <sup>2</sup>	(1)_____

1 Science transition pattern: 0401.101, 1901.303, 4-hour elective, and 0401.303 or 1901.303.

2 Required of all students who take 0835.102 Teaching Physical Education in the Elementary School.

<b>Health — 2-3 hours</b>			only to Art Education Majors. Prerequisite: Consent of Art Department.
*1201.101	Current Health Problems	(3)_____	
<b>English — 12 hours</b>			
*1501.102	Freshman Composition	(3)_____	0401.303 (14.303) LIFE SCIENCE IN THE ELEMENTARY SCHOOL (3) Emphasis placed on the conceptual approach to science teaching, the modes of scientific inquiry, and the utilization of living organisms in the classroom. Prerequisite: 0401.101. Register through Education Department. (C)
*1501.		(3)_____	
*1501.		(3)_____	
*1501.		(3)_____	
<b>Speech, Drama, or Philosophy — 2-3 hours</b>			1701.204 (50.323) TEACHING MATHEMATICS IN ELEMENTARY SCHOOL (2 or 3) Nature of Instruction, organization of units of instruction, provisions for developing understandings, new programs and research findings, and techniques of evaluation. Required of all Elementary Education Majors. Prerequisite: 1701.204 and 1701.205.
<b>Social Sciences — 15 hours<sup>3</sup></b>			1701.325 (50.325) TEACHING MATHEMATICS IN THE MIDDLE SCHOOL (3) (See Math. Dept. Listings.)
2206.102	Elements of Geography	(3)_____	1701.427 (50.427) READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3) (See Math. Dept. Listings.)
*2205.	History	(3)_____	0832.307 (54.307) TEACHING MUSIC IN THE ELEMENTARY SCHOOLS (2, 3) Acquaints students with music programs in the elementary school through lecture, class discussion, and practice with children. Prerequisite: 0832.233.
*2205.	History	(3)_____	0835.324 (60.324) TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL (2) (See Phys. Educ. Dept. Listings.)
*2205.	History	(3)_____	1901.303 (64.303) EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3) (See Physics Dept. Listings.)
*	Economics, Political Science, or Sociology	(3)_____	0834.376 (76.376) TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3) Significance of science for the elementary school child; its contribution toward his development; criteria for selecting science experiences for children. Open only to students in the Student Teaching Block.
TOTAL 60-63 hours			0834.488 (76.488) AEROSPACE EDUCATION WORKSHOP (3) In cooperation with CAP, USAF, and NASA. A fund of general knowledge about aviation and space exploration. Teaching materials, resources, and field experiences. Usually a weekend at Florida's Cape Kennedy Space Center and other day-long tours TBA. For K-12 teachers, supervisors, administrators and students of teaching. LAB FEE \$15.00 which includes travel charges. Three weeks. Summers only.
<b>B. PROFESSIONAL EDUCATION, 36 hours including:</b>			1506.375 (84.375) SPEECH IN THE ELEMENTARY SCHOOL (3) (See Communications Dept. Listings.)
*0803.101	Careers in Education	(2)_____	0802.305 (26.305) CREATIVE EXPRESSION (6) Experiences in planning and teaching an integrated and creative program of art, music and physical education activities at the elementary level. To be taken concurrently with Curriculum I. Prerequisite: Art, two or more hours: Music 0832.233; Ph. Ed. 0835.101, 0835.102.
0803.401	Foundations of Education (Prerequisite: Student Teaching)	(3)_____	0802.311 (26.311) CHILD AND THE ELEMENTARY SCHOOL CURRICULUM (3) The child, the school, and community, and the curriculum of the modern elementary school are interpreted in terms of the roles and functions of the public school in a democratic society. Prerequisite: 2001.101, 2001.201. Evenings and summers only.
*2001.201	Educational Psychology	(3)_____	0802.321 (26.321) TEACHING LANGUAGE ARTS IN THE ELEMENTARY SCHOOL (3) Language needs and abilities of children. Development of effective language skills with emphasis on reading. Evenings and summers only; part of Curriculum II in day program.
0803.315	Educational Measures for Classroom Teachers	(2)_____	0802.323 (26.323) TEACHING READING IN THE ELEMENTARY SCHOOL (3) Introduction to reading in the elementary school. A survey of varied approaches with emphasis on skills development. Evenings and summers only; part of Curriculum I in day program.
<b>Must be taken concurrently in Curr. I Semester</b>			
*0802.361	Elementary Curriculum I (Overview; Reading Methods)	(4)_____	
*1701.323	Teaching Mathematics in Elementary School	(2)_____	
<b>*Two or the following three<sup>4</sup></b>			
0831.371	Art and the Child and/or	(2)_____	
0832.307	Teaching Music in Elementary School and/or	_____	
0835.324	Teaching Physical Education in Elementary School	_____	
<b>Must be taken concurrently</b>			
0802.462	Elementary Curriculum II (Methods in Reading, Language Arts, Social Studies)	(6)_____	
0802.497	Student Teaching	(10)_____	
TOTAL 36 hours			
<b>EDUCATION ELECTIVES</b>			
<b>ELECTIVES IN ARTS AND SCIENCES — at least 17-20 hours. A major is desirable.</b>			
Schedules for Elementary Curriculum I and II semesters will be provided by the Department.			
0831.471 (12.471)	ADVANCED ART EDUCATION (3)	See Art Dept. Listings.) (G)	
0831.475 (12.475)	TEACHING ART IN THE ELEMENTARY SCHOOL (2)	Concurrent course with 479, Art in the Secondary School. For course description see 479. Open	

<sup>3</sup> Some counties and states require 2205.145-146 United States History.  
<sup>4</sup> The student must take prerequisite courses in Art, Music, and/or Physical Education for the two chosen. The third methods course may be taken as an elective after Student Teaching.

0802.361 [26.361] ELEMENTARY CURRICULUM I (4) Foundations of reading instruction and an overview of elementary schools including curriculum, organization, planning, evaluation, teacher characteristics; observation and participation in public schools. Prerequisite: Approval of Education Department.

0802.371 [26.371] FIELD STUDIES FOR ELEMENTARY TEACHING (2) Initial experiences in teaching and learning activities in specified settings will be provided. Students will study school activities which are directly related to classroom instruction as well as community related activities. Prerequisite: One course in education or Educational Psychology or consent of instructor.

0802.375 [26.375] TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (3) Locating, organizing, synthesizing, and interpreting fundamental social information. Evenings and summers only; part of Curriculum II in day program.

0802.427 [26.427] READING AND OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL—ADVANCED (3) Application of theory and research to the teaching of reading and the other language arts. Prerequisite: 0802.321, 0802.323, or 0802.462. May be taken for graduate or undergraduate credit in evenings and summers. (G)

0802.429 [26.429] METHODS AND PRINCIPLES OF READING INSTRUCTION—ADVANCED (3) Principles involved in building a developmental reading program; prevention of reading difficulties; methods of remedial reading. Prerequisite: 0802.323 or 0802.462. May be taken for undergraduate or graduate credit in the evenings and summers. (G)

0802.431 [26.431] DIAGNOSIS AND PRESCRIPTION FOR LEARNING DIFFICULTIES (3) Factors related to learning difficulties in the elementary and middle school; use of formal and informal tests and procedures for diagnosing learning difficulties; materials and methods for remediation of learning difficulties in the areas of oral language, written language, reading, spelling, handwriting, and mathematics. Students must work with one child as a requirement of the course. Prerequisites: Student teaching and/or classroom teaching experience, and six hours of psychology. (G)

0802.441 [26.441] CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3) The child and his curriculum. The teacher's role in curriculum as a process. Principles and philosophies of curriculum development. Objectives, practices, materials, and evaluation trends. Prerequisite: 0802.497. (G)

0802.457 [26.457] ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (3) Methods of teaching English to elementary school children whose native tongue is another language. Prerequisites: Elementary language arts methods course or elementary teaching experiences or consent of instructor.

0802.458 [26.458] PRACTICUM: ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (1-4) Supervised practical experience in teaching English to elementary school children whose native tongue is another language. Prerequisite: 0802.457 and student teaching or teaching experience.

0802.462 [26.462] ELEMENTARY CURRICULUM II (6) Integration of language arts (spelling, writing, literature, listening, usage, vocabulary development), social studies (nature of groups, research units, history, economics, government, sociology), and advanced reading instruction. Prerequisite: Elementary Curriculum I and consent of Education Department. To be taken during student teaching semester.

0802.470-479 [26.470-479] SPECIAL TOPICS IN ELEMENTARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Elementary Education. The specific

requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate program coordinator. Each topic may be taken as a separate course. (G)

0802.494 [26.494] TRAVEL AND STUDY: ELEMENTARY EDUCATION (1-6) Study abroad of educational facilities, programs, or practices, or selected projects in Elementary Education topics. By special arrangement with program chairman and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit.

0802.495 [26.495] INDEPENDENT STUDY IN EDUCATION: ELEMENTARY (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: Approval of program Chairperson. Graduate credit by consent of Graduate Program Coordinator only. (G)

0802.496 [26.496] DIRECTED READINGS: ELEMENTARY EDUCATION (1-4) Independent reading in selected areas of Elementary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Graduate credit by consent of Graduate Program Coordinator. (G)

0802.497 [26.497] STUDENT TEACHING IN ELEMENTARY SCHOOL (6-10) Ten to twelve weeks, full time, in public school classrooms under the guidance of master teachers. Conferences with the college supervisor. Prerequisite: Approval of Education Department. (Variable credit in Art, Music, and Physical Education.)

0802.498 [26.498] DIFFERENTIATED STUDENT TEACHING—ELEMENTARY (1-8) Student teaching experiences in addition to those in 0802.497 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: Consent of the Director of Laboratory Experiences.

(G) May be available for graduate credit. See Graduate Catalog.

## Graduate Only

1701.521 [50.521] SEMINAR IN TEACHING ARITHMETIC (3) (See Math. Dept. Listings.)

0834.585 [76.585] SEMINAR IN ELEMENTARY SCHOOL SCIENCE (3) Seminar approach to current practices and trends in organizing, teaching and improving programs in elementary school science. Each student conducts a limited research on some aspect of science teaching. Prerequisite: At least three basic science courses and elementary teaching experience.

0802.585 [(26.585)] SEMINAR IN ELEMENTARY SCHOOL SOCIAL STUDIES (3) Trends, content, issues, and materials involved in the teaching of social studies. Each student will be expected to explore in depth one aspect of the subject and present his findings to the group. (G)

0802.616 [26.616] THE ADMINISTRATION OF THE ELEMENTARY SCHOOL (3) Analysis of principles of elementary school administration, the administrator's roles and responsibilities, human relations and personnel management, public relations, management of the school unit and curriculum. Prerequisite: Three years teaching experience, teacher certification and nine hours of graduate credit.

0802.647 [26.647] THE TEACHING PROCESS: ELEMENTARY EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies

in educational programs for elementary children. Prerequisite: Teaching experience, and PSYCH 2001.511.

0802.648 [26.648] INDIVIDUALIZING LEARNING IN THE ELEMENTARY SCHOOL (3) Consideration is to be given to the theory of individualizing learning and to the related restructuring of organizational patterns. Emphasis is to be placed on behavioral objectives, learning centers, listening stations, task folders, and media centers. A project is required. Prerequisites: Certification and Teaching Experience or Consent of Instructor.

0802.665 [26.665] THEORETICAL AND PRACTICAL BASES OF CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3) History of curriculum development in the elementary school; basic considerations affecting curriculum development; patterns of organization; objectives, practices and evaluation; problems in curriculum development. Prerequisite: Consent of program coordinator.

0802.675 [26.675] SEMINAR IN ELEMENTARY EDUCATION (3) Scientific investigation of selected aspects of education with emphasis on classroom application. A paper involving description and evaluation of the investigation will be required. Prerequisite: 30 hours of graduate work including 0801.691.

0802.681 [26.681] EMINAR IN ELEMENTARY SUPERVISION (3) Role of the supervisor; supervisory practices and techniques. Students may concentrate in areas related to their professional interests. Prerequisite: Nine hours of graduate work.

0802.699 [26.699] MASTERS THESIS IN ELEMENTARY EDUCATION

## SECONDARY EDUCATION AND DUAL CERTIFICATION PROGRAMS ADULT EDUCATION

The programs of education for junior and senior high school teachers are designed to bring about a close integration between teaching methods and the practical experiences of observation and student teaching. After introductory courses in the nature of today's schools and their students, the prospective secondary teacher enters the student teaching semester. Methods, philosophy, techniques, and practice are combined to provide a thorough preparation for teaching, and such preparation must be demonstrated prior to student teaching. Students are required to consult with their secondary education advisors concerning the proficiency tests to be taken and the minimum scores necessary to progress into the student teaching sequence. In some cases, supplementary course work may be required of students who fail to demonstrate rudimentary reading and writing proficiencies. Secondary Department approval for student teaching is also required. The student teaching semester is followed by a course in the sociological, philosophical, psychological, and historical foundations of education.

There is no single "Secondary Education" major. Rather, a student must satisfy the general course requirements of the college and complete a major in a department whose subject area is among those for which a secondary school teaching certificate may be issued. In addition to this major, the following courses are required in Teacher Education:

Professional Courses Required	Sem.	Hrs.	When Taken	
			Year	Semester
0801.101 Careers in Education	2		I or II	1 or 2
2001.201 Educational Psychology	3		II	1 or 2
(Prerequisite: General Psychology)				

0803.341 Principles of Secondary Education — (Prerequisite: 2001.201) — Taken the semester prior to student teaching

0803.360 Teaching Reading in Secondary Schools

(Above course required of English and Social Science majors—recommended to others. Taken concurrently with Principles of Secondary Education)

Methods of Teaching 3 III-2 or IV-1 or 2

Major Subject

(Taken during Student Teaching semester) (Science majors take 2 hours prior and 2 hours during)

0601.269 Educational Media

Laboratory\* 1 III-2 or IV-1 or 2

(Above course is combined for those students teaching in a Middle School Center in a 3 credit course titled "Teaching in the Middle School." It is also combined in a methods course in other centers.)

0803.398 Student Teaching 10 III-2 or IV-1 or 2

(A minimum grade of "C" in Principles of Secondary Education or Survey of Educational Programs, and in teaching methods is one of the prerequisites. Students must also satisfy academic requirements of the departments concerned.)

0801.401 Foundations of Education 3 IV 1 or 2

(Prerequisite: Student Teaching)

The following Majors are recognized for Secondary Certification. The listings here are general guides only and subject to revision by the departments concerned. Students must check with the appropriate department to be sure all details of the requirements for the major are fulfilled. It is also the student's responsibility to see that he/she is meeting the State Requirements under which he/she wishes certification.

### Biology

Required in Major (30 hrs.): 101 Fundamentals of Biology (4); 105 General Botany (4); 109 Functional Anatomy of Vertebrates (4); 331 Field and Systematic Botany (4); 351 Field and Systematic Vertebrate Zoology (4); 401 Genetics (4); plus 6 semester hours of electives from departmental offerings.

Required in Related Subjects (23 hrs.): 101-102 General Chemistry (8); 231 Organic Chemistry (4); 211-212 General Physics (8); 115 Mathematics I (3).

### Business

Towson State College Department of Secondary Education does not offer a major in business education, but in cooperation with Morgan State University, it is possible for BUAD majors to become certified as business education teachers (socioeconomic business subjects or vocational skill courses depending upon program of studies). Students must meet the general course requirements of Towson State College as well as requirements for a BUAD major as outlined by the Department of Business Administration and complete the professional courses required by the Maryland State Department of Education offered through the TSC Department of Secondary Education and Morgan State University. See Chairperson of Secondary Education for further details before beginning course work with this intention.

### Chemistry

Required in major (39 hours): 101-102 General Chemistry (8); 211 and 411 Analytical Chemistry (8); 331-332 Organic Chemistry (10); 341-342-343-344 Physical Chemistry (8); 422 Inorganic Chemistry (4); 401 Seminar (1).

Required in related subjects (at least 16): General Physics I and II (8); Mathematics through Calculus II (at least 8).

### English

Required in Major (36 hrs.): Freshman Composition (or Advanced Freshman English) (3); English Literature (6);

Elements of Poetry (3); Approaches to English Study (3); plus 21 hours from departmental offerings (three of which may be in a lower division course. At least one course must be chosen from offerings in each of the following areas: Language or Literary Criticism; Literature Beginnings to 1700; Literature 1700 to 1832; Literature 1832 to 1900; Individual Major Authors; One course must be in American Literature.

Intermediate level of a foreign language is strongly recommended.

Teacher education majors are also required to take 0803.360 Teaching Reading in the Secondary School and elect either 1501.332 Comparative Grammar, or 1501.431 Structure of the English Language. Either 1501.327 Structural Linguistics, or 1501.430 History of the English Language is strongly recommended. Other recommended electives for Teacher Education Majors are: 1501.226 Introduction to Classical Mythology; 1501.31 Advanced Exposition; 1501.401 Literature of Black America; 1506.106 Voice and Diction; 1506.213 General Semantics; 0803.359 Contemporary Materials for Teaching English in Secondary Schools; 0803.358 Teaching Composition in the Secondary School. And from Morgan State University. Introduction to the Negro in American Literature, The Negro in American Prose, and American Folklore.

### French

Required in the Major (30 semester hours beyond the intermediate level (2nd year) of the language): 1102.301-302 Advanced Composition and Conversation I, II (6); 1102.321-322 Survey of French Literature I, II (6); 1102.391 Advanced French Grammar (3); plus 15 additional semester hours of electives in the major, at least nine of which must be 400 level literature courses. French Phonetics (1102.401) is highly recommended before student teaching.

### General Science (Natural Science)

Required in Major (51 hrs.): 101-102 General Chemistry (8); 101 Fundamentals Biology (4); 211-212 General Physics (8); 105 General Botany (4); 109 Functional Anatomy of Vertebrates (4); 211 Analytical Chemistry or 231 Organic Chemistry (4); 121 General Geology (3); 211 General Astronomy (3); Advanced Laboratory 291 or 491 or 401 (2); Electives (11).

Required in Related Subjects (3 hrs.): 115 Mathematics I (3).

### Geography

Required in Major (30 hours): Lower Division (100's-200's) courses (9); Upper Division (300's-400's) courses (21). (At least nine hours of which must be courses designated as ter hours, at least nine of which must be 400 level literature courses.)

### German

Required in the Major (30 semester hours beyond the intermediate level (2nd year) of the language): 1103.301-302 Advanced Composition and Conversation I, II (6); 1103.321-322 Survey of German Literature I, II (6); 1103.391 Advanced German Grammar (3); plus 15 additional semester hours, at least nine of which must be 400 level literature courses.

### Health

Required in Major (32 hours): 101 Current Health Problems (3); 103 First Aid (2); 202 Principles and Practices of Community Health (3); 201 Health Education in the School I (3); 205 Health Education in the School II (3); 208 Mental

Health (3); 401 Sex Education and Family Life (3); 405 Drugs in Our Culture (3); 402 Seminar in Health (3). Two health elective courses.

Required in Related Subject (31 hours): 0401.101 Contemporary General Biology (4); 1905.100 or 101 Chemistry (4); Human Anatomy & Physiology I & II (8); General Psychology (3); 2299.101 Introduction to Sociology (3); Microbiology (4); 1801.414 Educational Tests & Measurements (3); and two Phys. Ed. electives.

Note: Health majors presently prepare only for secondary certification. However, they do take "Survey of Education Programs" or "Principles of Secondary Education." Also, they take 14 semester hours of student teaching instead of 10. A combination School and Community Health Specialization is also available. For details see Health Science Department.

### History

Required in Major (36 hours): History of the United States 2205.145-146 (6); History of European Civilization 241-242 (6); Choice of 2205.290 Introduction to Historical Study or 2205.490 Interpretive Problems in History or 2205.498 Philosophy of History (3); A course from African, Asian or Latin American fields (3); plus 18 additional hours elected from offerings of the department (12 hours must be upper division).

### Mathematics

Required in Major (30 hours): 261 Fundamentals of Math (3); 273 Calculus I Differential (4); 274 Calculus II Integral (4); 353 Elementary Geometry from an Advanced Standpoint (3); 361 Algebraic Structures (4); Plus 12 upper division elective hours in math.

Required in Related Subjects (11 hours): General Physics I & II (8), and 0701.235 Computer Science (3).

### Physics

Required in Major (28 hours): 1902.221-222 or 1902.211-212 General Physics. Any two of 1902.385 Mechanics and Heat, 1902.368 Modern Physics, 1902.387 Electricity and Optics. Either 1902.302 Thermodynamics and Kinetic Theory or 1902.321 Introductory Mathematical Physics. Either 1902.301 Mechanics or 1902.305 Electricity and Magnetism; and 1902.401 Physics Seminar.

Required in Related Subjects (20 credits): General Chemistry I and II; Math through Calculus II; and Contemporary General Biology.

### Social Science

Required in Major (54 hours): 2205.241 History of European Civilization I (3) and 2205.145 History of European Civilization II (3); 2205.145 U.S. History I (3) and 2205.146 U.S. History II (3); 2206.101 or 2206.102 Elements of Geography (3) plus one upper division course (3); 2207.101, 103, 107, 207 Political Science (any two of these courses for 6 credit hours); 2299.101 Introduction to Sociology (3) and 2202.207 Cultural Anthropology (3); 2204.101 Economic Principles and Problems II (3); 12 hours of upper division electives in the social science disciplines plus 6 hours in lower or upper division history electives to meet state certification requirements.

### Sociology

Required in Major (30 hours): 101 Introduction to Sociology (3); 407 Social Theory (3); 111 Behavioral Statistics (3); 495 Research Methods (3); plus 18 semester hours of electives from offerings of the department.

**Spanish**

Required in the Major (30 semester hours beyond the intermediate level (2nd year) of the language): 1105.301-302 Advanced Composition and Conversation (6); 1105.311-312 Culture and Civilization of the Spanish Speaking Peoples I, II (6); 1105.321-322 Survey of Spanish Literature I, II (6); 1105.391 Advanced Spanish Grammar (3); plus 9 additional semester hours of 400 level Spanish literature courses.

**Speech-Drama**

Required in Major: 1506.106 Voice and Diction (3); 1506.131 Fundamentals of Speech Communication (3); 1506.203 Advanced Public Speaking (3); 1506.221 Oral Interpretation of Literature (3); 1506.310 Phonetics of American English (3); 1007.231 Mime I (3); 1007.311 Theatre Production (4); 1506.379 Teaching Speech and Drama in the Secondary School (3); plus 18 semester hours of specified electives from departmental offerings. Speech & Drama Secondary Majors are very strongly urged to complete 26 hours of English courses plus 0803.360 and 0803.357. Majors must register with the Area Coordinator one semester prior to student teaching.

**Reading Concentration**

The following courses are offered to permit a secondary student to add a reading concentration to any of the majors listed above: 0803.360 Teaching Reading in the Secondary School; 0803.461 Teaching Reading in the Secondary Content Areas; 0803.463 Developmental Reading for the Early Adolescent; and the following related course offerings: 0803.495, Independent Study in Secondary Education — Reading; 0803.457 Methods of Teaching English as a Second Language; 0801.425 Corrective Reading; 0803.399 Differentiated Student Teaching (Secondary Reading).

**Dual Certification**

The following majors are recognized only for dual certification (both elementary and secondary), and students must prepare to teach K-12. They must complete the general course requirements of the college, the requirements of the major department, and the following Teacher Education courses: Educational Psychology (Prerequisite: General Psychology); Survey of Educational Programs 0803.319 prerequisite 2001.201 (in lieu of "Principles of Secondary Education"); Methods of teaching major subject in Elementary School; Methods of teaching major subject in Secondary School; Student teaching in Elementary School; Student teaching in Secondary School; Foundations of Education 0801.401 (prerequisite: student teaching).

**Art Education**

Required in Major: 103 Two Dimensional Design (3); 104 Three Dimensional Design (3); 111 Drawing and Appreciation of Drawing (3); 121 History of Art, Ancient to Renaissance (3); 122 History of Art — Baroque to Modern (3); 229 Painting I; Oil (3); 230 Watercolor and Related Media (3); 231 Ceramics (3); 240 or 241 Sculpture (3); 225 Design for Commercial Art; 201 Color (3); 234 The Photographic Image (3); 375 Materials and Techniques for Teachers of Art (3).

Plus at least one of the following: 1001.347 Screen Process, 1001.349 Relief Process, 1001.449 Intaglio Process, or 1001.349 Lithographic Process (3).

Plus 12 additional hours — from departmental offerings, preferably in an area of specialization. (Electives also permitted in Stage Design, Photography, Films) (12). In

addition to the Teacher Education courses, 0831.455 "Proseminar in Teaching of Art" is required.

**Music**

Required in Major (Instrumental Music 63; Vocal and General Music 63); Music Theory and Laboratory (16); Music Organizations (7); Piano Class (2); Voice Class (1); Brass Class\* (2); String Class\* (2); Percussion Class\* (2); Woodwind Class\* (2); History of Music I & II (6); Choral and Instrumental Arranging (3); Conducting (Either Instrumental or Choral) as case may be (3); Form and Analysis (3); Private Lessons (7); General Music (3).

In addition, the following course is required which could be considered part of the professional courses. Organization and Administration of Music Education (3).

\*Note: Vocal majors take these classes for one semester hour only. In lieu of this they must elect three additional hours, and take Voice Class for two semester hours instead of one.

**Physical Education**

Required in Major (36-37 hours): 0835.199 Overview of Physical Education (2); 0835.203 Curriculum in Physical Education (3); 0835.311 Kinesiology (3); 0835.313 Physiology of Exercise (3); 0835.303 Organization and Administration of Physical Education (3); 0835.309 Tests and Measurement (P.E.) (3); 0835.401-402, Principles and Problems of Physical Education I and II (4); 0835.321-322 Coaching and Officiating I and II (required for men majors, elective for women) (2); 0835.423 Adaptive Physical Education (required for women majors, elective for men) (3); 0835.315 Care and Prevention of Athletic Injuries (required for men, elective for women) (2); Laboratory Skills (12) (12 hours of laboratory skills are required, nine hours of which are specified).

Required in Related Subjects (28 hours): 0401.101 General Biology (4); 1902.101 General Physics B (5); 0401.113-114, Human Anatomy and Physiology I and II (8); 2001.101 General Psychology (3); 1201.103 First Aid (2); 1201.101 Current Health Problems (3); 1201.201 Health Education in the Schools I (3).

**Master of Education in Secondary Education**

For detailed information regarding the Master of Education in Secondary Education see the Catalog of Graduate Studies.

**UNDERGRADUATE COURSES IN SECONDARY EDUCATION (0803)**

0803.301 (27.301) FIELD EXPERIENCES IN SECONDARY EDUCATION (3) Experience in observing and studying school activities directly related to classroom instruction and pupil learning; observing and analyzing teacher roles, student roles and instructional environment. Emphasis is placed on direct experience in a variety of school settings. Prerequisites: Educational Psychology (2001.201).

0803.319 (27.319) SURVEY OF EDUCATIONAL PROGRAMS (3) Survey of educational programs and services K-12. Combines theoretical aspects of (0802.361), Elementary Curriculum I and (0803.341) Principles of Secondary Education. Open only to those students in art, music, physical education, speech pathology, or health, whose majors lead directly to certification in elementary and secondary education. Prerequisite: 2001.201 and consent of instructor, the chairperson of student's major department and the chairperson of secondary education.

0803.341 (27.341) PRINCIPLES OF SECONDARY EDUCATION (3) Philosophy and purpose of secondary education; na-

- ture of secondary education programs; principles of teaching and learning; basic techniques in instruction. Prerequisite: Junior standing, Educational Psychology 2001.201 and permission of chairman of Secondary Education. Field experience required. To be taken the semester prior to student teaching.
- 0803.353 [27.353] TEACHING MODERN FOREIGN LANGUAGE IN THE SECONDARY SCHOOL (3) Aims and purposes of foreign language instruction; current curricular trends, including the importance of modern language teaching practices. Open to juniors or seniors, who plan to teach foreign language, with consent of instructor. Prerequisite: 0803.341.
- 0803.355 [27.355] TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL (3) Objectives, curriculum, materials and instructional procedures in the teaching of social studies. Open to students in the student teaching block and others with equivalent backgrounds and objectives. Prerequisite: 0803.341.
- 8003.357 [27.357] TEACHING ENGLISH IN THE SECONDARY SCHOOL (3) Language Arts as taught in secondary schools. Open to students in the student teaching block and to others with equivalent backgrounds and objectives with consent of the instructor. Prerequisite: 0803.341.
- 0803.358 [27.358] TEACHING COMPOSITION IN THE SECONDARY SCHOOL (3) This course includes: grammar vocabularies, motivational techniques, evaluation, student publications, varieties of purposes for writing, oral composition, laboratory experiences and individual problem analysis. Prerequisite: 0803.357 or consent of instructor. (G)
- 0803.359 [27.359] CONTEMPORARY MATERIALS FOR TEACHING ENGLISH IN SECONDARY SCHOOLS (3) Application of new materials designed for teaching the language arts in the secondary school including records, films, SRA materials, programmed learning, and television. Prerequisite: 0803.357 or consent of instructor. (G)
- 0803.360 [27.360] TEACHING READING IN THE SECONDARY SCHOOL (3) General developmental reading skills; identification, diagnosis and remediation of reading problems; comprehension, vocabulary building, work-study skills. (G)
- 1506.379 [84.379] TEACHING SPEECH AND DRAMA IN THE SECONDARY SCHOOL (see Communications Dept. Listings.)
- 1701.423 [50.423] TEACHING MATHEMATICS IN THE SECONDARY SCHOOL (see Math. Dept. Listings.)
- 1701.429 [50.429] READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (see Math. Dept. Listings.)
- 0832.308 [54.308] METHODS OF TEACHING INSTRUMENTAL MUSIC (see Music Dept. Listings.)
- 3802.309 [[54.309] METHODS OF TEACHING CHORAL AND GENERAL MUSIC IN SECONDARY SCHOOL (see Music Dept. Listings.)
- 0831.479 [12.479] TEACHING ART IN THE SECONDARY SCHOOL (2) (See Art Dept. Listings.)
- 0835.325 [60.325] TEACHING PHYSICAL EDUCATION IN THE SECONDARY SCHOOL (see Phys. Educ. Dept. Listings.)
- 0834.301 [76.301] FIELD COURSE IN SECONDARY SCIENCE TEACHING METHODS (2) Analysis and evaluation of current materials and techniques in secondary science teaching. To be taken concurrently with student teaching at off-campus center. Prerequisite: 0834.379 and must be student teaching.
- 0834.380 [76.380] TEACHING SCIENCE IN THE SECONDARY SCHOOL (3) Selection of appropriate content, method and evaluation techniques, analysis of textbooks and resource materials. Must be taken in semester prior to student teaching.
- 0834.401 [76.401] SEQUENTIAL SCIENCE MODULES FOR THE ELEMENTARY SCHOOL TEACHER (1, 2, or 3) Three different modules of instruction including (1) Life Science, and (2) Physical Science, and (3) Earth-Space Science, will be offered for teachers of the primary and intermediate grades. The course will emphasize instructional strategies in both the processes and content of the science. A student may elect to take 1, 2, or all 3 modules for 1, 2, or 3 credit hours respectively. All students must attend the first class meeting for course orientation. Thereafter, each module will meet once a week for four weeks. Each meeting will consist of approximately four hours laboratory work. Prerequisites: Teaching experience in the elementary schools.
- 0803.398 [27.398] STUDENT TEACHING IN SECONDARY SCHOOL (6-14) Practical experience in observation, participation, and student teaching in public school situation. Prerequisite: 0803.341 or 0803.319 and appropriate methods course. Student Teaching is offered in the following subject areas:
- |                                   |           |
|-----------------------------------|-----------|
| 0803.398 Art                      | (6)       |
| 0803.398 English                  | (10)      |
| 0803.398 Speech and Dramatics     | (10)      |
| 0803.398 Mathematics              | (10)      |
| 0803.398 French                   | (10)      |
| 0803.398 German                   | (10)      |
| 0803.398 Health                   | (8 or 14) |
| 0803.398 Music                    | (6)       |
| 0803.398 Physical Education       | (6-7)     |
| 0803.398 Biology                  | (10)      |
| 0803.398 Secondary School Science | (10)      |
| 0803.398 Social Studies           | (10)      |
| 0803.398 Spanish                  | (10)      |
- 0803.399 [27.399] DIFFERENTIATED STUDENT TEACHING — SECONDARY (1-8) Student teaching experiences in addition to those in 0803.398 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: Consent of the student's area director.
- 0803.401 [27.401] ANALYZING STUDENT TEACHING (3) Analysis of and development of solutions for problems in pupil behavior, curriculum, evaluation and instructional procedures. Secondary teaching philosophies and strategies based upon identified needs determined as a result of the student teaching experience will be explored in depth. Undergraduate credit only. Prerequisites: Completion of student teaching.
- 0803.421 [27.421] THE JUNIOR HIGH SCHOOL (3) Principles, purposes, functions, and characteristics of the Junior High School, with emphasis upon its organization and curriculum. Prerequisite: 0802.361 or 0803.319 or 0803.341. (G)
- 0803.423 [27.423] THE MIDDLE SCHOOL (3) Functions and characteristics of the middle school; emphasis on nature of transcendent youth (ages 10-14), curriculum, and organizational patterns. Prerequisite: 0802.361, or 0802.462, or 0803.319, or 0803.341. (G)
- 0803.425 [27.425] TEACHING IN THE MIDDLE SCHOOL (3) Instruction in the methods, required for teaching in the middle school. An individualized program of instruction, readings, observations and teaching experiences will be planned for each student. Prerequisite: Teacher experience, student teaching, or concurrent with student teaching. (G)
- 0803.441 [27.441] METHODS OF TEACHING SOCIO-ECONOMIC BUSINESS SUBJECTS IN SECONDARY SCHOOLS (3) Selection of appropriate content, methods and materials and evaluation techniques for teaching



socio-economic subjects in secondary schools. Planning approaches for developing curricula in General Business. Business law, consumer economic, business mathematics, bookkeeping, and economic geography. Prerequisites: 2001.201 Educ Psysc and 0803.341.

0803.451 (27.451) THE SLOW LEARNER IN THE SECONDARY SCHOOL (3) Explores motivational devices, discipline, planning instruction, testing and evaluation for the slow learner as well as techniques for developing an adequate self-concept and maintaining a positive classroom atmosphere.\* Prerequisite: Teaching experience, student teaching, or consent of instructor. (G)

0803.457 (27.457) METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (3) Teaching teachers methods of teaching English as a second language. Attention is given to the use of visuals, contrastive analysis, drill techniques, and other methods and resources. Prerequisites: Teaching experience or consent of instructor. (G)

0803.461 (27.461) TEACHING READING IN THE SECONDARY CONTENT AREAS (3) Teaching reading study skills leading to reading efficiency and problem solving associated with specific subject matter content. Prerequisites: 0803.360. (G)

0803.463 (27.463) DEVELOPMENTAL READING FOR THE EARLY ADOLESCENT (3) Methods of designing and teaching developmental reading programs for the middle or junior high school student. Attention to the following: providing for individual differences, teaching students to read critically, developing and extending reading interests. Prerequisite: 0803.360 or equivalent reading methods course. (G)

0803.470-479 (27.470-479) SPECIAL TOPICS IN SECONDARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Secondary Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate program coordinator. Each topic may be taken as a separate course. (G)

0803.494 (27.494) TRAVEL AND STUDY IN SECONDARY EDUCATION (1-6) Study abroad of educational facilities, programs or practices, or selected projects in education topics. By special arrangement with program chairman and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit. (G)

0803.495 (27.495) INDEPENDENT STUDY IN EDUCATION: SECONDARY (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: Consent of Chairperson of Secondary Education. Graduate credit by consent of Graduate Program Coordinator only. (G)

0803.496 (27.496) DIRECTED READINGS IN SECONDARY EDUCATION (1-4) Independent reading in selected areas of Secondary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Obtain consent of chairman of Secondary Education. Graduate credit by consent of Graduate Program Coordinator only. (G)

(G) May be available for graduate credit. See Graduate Catalog.

## Graduate Only

0803.641 (27.641) CURRICULUM DEVELOPMENT IN THE SECONDARY SCHOOL (3) Principles and philosophies of curriculum development; objectives, practices and eval-

uation trends; the teacher's role. Prerequisite: Consent of Instructor.

0803.643 (27.643) THE ADMINISTRATION OF THE SECONDARY SCHOOL (3) Analysis of principles of school administration, the administrator's roles and responsibilities, human relations and personnel management, public relations, management of the school unit and curriculum. Prerequisite: Three years teaching experience, teacher certification and nine hours of graduate credit.

0803.647 (27.647) THE TEACHING PROCESS: SECONDARY EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for Secondary students. Prerequisite: Teaching experience, either Psysc. 2001.511 or Educ. 0801.501, and consent of Education Graduate Coordinator. One semester per year, day and/or evening and Summer.

0803.679 (27.679) SEMINAR IN SECONDARY SCHOOL SOCIAL STUDIES (3) A seminar approach to current research, trends, practices, issues, content, materials, and problems in the teaching of contemporary secondary school social studies. Individual reading and research will be pursued on selected topics culminating in a seminar paper. Prerequisite: Consent of instructor, or prior teaching experience in social studies.

0803.681 (27.681) SEMINAR IN SECONDARY EDUCATION (3) Scholarly investigation of selected aspects of secondary education with emphasis on classroom application. A paper involving description and evaluation of the investigation will be required. Prerequisite: Twenty-four hours of graduate work including 0801.691.

0803.683 (27.683) SEMINAR IN SECONDARY SUPERVISION (3) Role of the supervisor; supervisory practices and techniques. Students may concentrate in areas related to their professional interests. Prerequisite: Nine hours of graduate work in the field of education.

0803.699 (27.699) MASTERS THESIS IN SECONDARY EDUCATION

## COURSES IN ADULT EDUCATION (0807)

Commencing with the 1976-77 Academic Year, the current alphabetical designation "EDPM" (Adult Education) will be replaced by a numeric code of 0807.

0807.485 (27.485) ADULT EDUCATION (3) Introduction to the historical and philosophical evolution of adult education in the United States in relationship to current aims, types of programs, and issues. Prerequisite: Consent of instructor. (G)

0807.487 (27.487) TEACHING THE ADULT LEARNER (3) Teaching-learning activities at various levels of adult education. The needs, motivation, and abilities of the adult learner are stressed. Prerequisite: Consent of instructor. (G)

0807.489 (27.489) PRINCIPLES OF READING INSTRUCTION FOR ADULTS (3) Causes of adult reading disabilities, evaluation relevant to reading disability, and the methods and materials employed in the remediation process. Prerequisite: Consent of instructor. (G)

## DRIVER AND SAFETY EDUCATION (0836)

A. Requirements for certification in Driver Education for teaching in public or private high schools approved by the MSDE.

General requirements: (1) A bachelor's degree and (2) A teaching certificate with a teaching major; or (1) Complete the General Education Requirements, (2) Develop a major

and meet certification requirements in the major, and (3) Complete the following as elective courses: Educational Psychology; Principles of Secondary Education; Audio-Visual Laboratory or Methods and Materials in New Educational Media.

*Specific requirements:*

- (1) Complete 12 required credits: 0836.431; 0836.434; 0836.446; 0836.433.
- (2) Complete 6 elective credits from: 0836.430; 0836.442; 0803.399; 0803.495 (may not be acceptable for certification but satisfy Board of Education for advanced credits).

**B. Requirements for paraprofessional certification in Driver Education for teaching laboratory phases in public or private high schools approved by the MSDE.**

*General requirement:* High school diploma or equivalent.

*Specific requirements:* Complete 12 credits from: 0836.431; 0836.433; 0836.434; 0836.446.

**C. Requirements for classroom instruction certification by MMVA for teaching in a commercial driving school.**

*General requirement:* A Bachelor's degree.

*Specific requirements:* Complete six credits from 0836.431; 0836.433; 0836.434; 0836.446.

**0836.430 [28.430] PRINCIPLES OF ACCIDENT PREVENTION** (3) Includes a survey of the history and philosophy of the safety education movement, need for safety education, aims and objectives, accident causation and prevention, and the role of education in eliminating environmental hazards and reducing avoidable human error. (G)

**0836.431 [28.431] HIGHWAY TRANSPORTATION SYSTEM AND DRIVER TASK ANALYSIS** (3) History and philosophy of automobile and highway safety engineering, U.S. and International traffic controls, traffic laws and regulations, critical analysis of traffic accidents and causation, and attitude factors. (G)

**0803.399 [27.399] DIFFERENTIATED STUDENT TEACHING — SECONDARY [1-8]** Student teaching experiences in addition to those in 0803.398 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: Consent of the student's area director.

**0836.433 [28.433] MULTIPLE CAR FACILITIES AND ON-STREET INSTRUCTION IN DRIVER EDUCATION** (3) Supervised student teaching in Driver Education, including classroom and in-car, and utilization and planning for multiple-car facility: (May be taken concurrently with 0836.434.) Prerequisite: 0836.431 Maryland license and three years driving experience with good record. (G)

**0836.434 [28.434] FIXED BASE SIMULATION AND ON-STREET INSTRUCTION IN DRIVER EDUCATION** (3) Supervised student teaching using driving simulators. Theory, mechanics, techniques, utilization and evaluation of driving simulators. (May be taken concurrently with 0836.433.) Prerequisite: 0836.431 Maryland license and three years driving experience with good record. (G)

**0836.439 [28.439] BASIC PUPIL TRANSPORTATION** (3) Consideration of organization and administration of state, county, and district pupil transportation service with emphasis on safety and economy. Selection and training of drivers, route planning, maintenance, mechanics, bus specifications and procurement are included. Prerequisite: Approval of Director. (G)

**0836.440 [28.440] ADVANCED PUPIL TRANSPORTATION** (3) Consideration of the problems of school bus transportation, solutions, employed, and a review of research and

techniques in this field. Workshop approach utilized. Prerequisite: Approval of Director. (G)

**0836.441 [28.441] ADMINISTRATION AND SUPERVISION OF DRIVER EDUCATION** (3) Background and experience in administration and supervision of Driver Education programs. Methods of organization, techniques, materials, program planning, records and reports, financing and insurance, procurement, personnel selection, planning classroom and in-car laboratory experiences are included. Prerequisite: 6 credits in approved Safety and Driver Education courses or approval of Director. (G)

**0836.445 [28.445] CURRICULUM DEVELOPMENT IN DRIVER EDUCATION** (3) History of curriculum development in driver education; principles; philosophies; objectives; current practices, evaluation techniques; laboratory experience; and field study. Prerequisite: 6 credits in approved Driver Education Courses or approval of Director. (G)

**0801.495 [29.495] INDEPENDENT STUDY IN EDUCATION: (Topic to be Named) [1-4]** An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: Consent of program chairperson.

(G) May be available for graduate credit.

## General Studies in Education Major

The Major in General Studies in Education permits highly individualized programs or thematic options described in terms of the students' recognized needs and the requirements of positions for which they hope to prepare. (Eg., one such emphasis has been developed in Library Media Education.) Inquiries should be made to the Director of Professional Programs, Division of Education. The following guidelines must be followed:

A. The student must achieve a 2.0+ C.P.A. and must declare the major by submitting a plan of study no later than the first semester of the junior year. This plan of study must be approved in advance by the student's Education advisor and the Associate Dean of Education.

B. The student must satisfy the General Education Requirements of the College (38-45 hrs.) and a minimum of 120 hrs. for graduation.

C. The student must complete 36 or more additional hours in liberal Arts and Sciences courses from Art, Biology, Chemistry, English, Geography, Health, History, Modern Languages, Mathematics, Music, Philosophy, Physics, Psychology, Sociology, or Theatre. These hours must include work from a minimum of four different departments and be approximately balanced between the arts and the sciences (physical or social). A rationale for the selection of these courses must be followed.

D. The student must also include in his program a professional component of approved professional courses planned to prepare him/her for a specialty. This component must be designed with appropriate competencies in an area of expertise chosen by the student. This part of his program must consist of at least 80% upper-division courses and center around a "core" specialty which leads to professional certification or expertise in an Education-related occupation.

Consult General Studies Education Advisor, Dr. Van Norman, before taking any courses.

## Library Media Education Programs

Certification standards are changing. These possibilities are being developed and subject to confirmation:

1. "Minor" Program: State certification for the position of school librarian (Education Media Associate Level I) may be obtained by completing one of the majors in teacher education plus an additional eighteen semester hours of Media Education as a "minor" elective. Consult Dr. Van Norman.

2. Major Program: The General Studies in Education Major provides for a thematic option in Library Media Education which is designed to prepare students for certification as school librarian (Education Media Associate Level I). Students interested should inquire in Division of Education before taking any courses. Consult Dr. Van Norman.

3. Graduate Study: Students who have bachelor's degree and wish to prepare for an advanced certification in school librarianship (Education Media Generalist, Level II) should consult the Department of Instructional Technology. See Department of Instructional Technology for media courses.

## **SPECIAL EDUCATION COURSES (0808)**

0808.441 [28.441] SPECIAL NEEDS OF THE HANDICAPPED CHILD (3) Characteristics of the handicapping condition as it affects learning in a classroom setting. Methods of tailoring educational programs for children with handicaps in the following areas: vision, hearing, speech and language, emotional disturbance and physical and/or chronic medical conditions. [Observations in appropriate settings and guest lecturers in specialty areas.] Prerequisites: six credits psychology; and six credits in education.

0808.481 [28.481] METHODS AND MATERIALS FOR TEACHING THE VISUALLY IMPAIRED (3) A course designed to examine recognized methods, materials, and programs for teaching children who are visually impaired. Included is the opportunity for students to select appropriate content and projects to meet unique interests and needs. Prerequisites: 2001.101 and 2001.201 and 0808.483 or consent of instructor.

0808.483 [28.483] BRAILLE READING AND WRITING (3) Course deals with reading and writing of braille. Additional individual project required of students taking course for graduate credit. Prerequisites: 2001.101, 2001.201 and consent of instructor. (G)

(G) May be available for graduate credit. See Graduate Catalog.

## **SPEECH PATHOLOGY AND AUDIOLOGY**

A program to meet certification requirements as a speech and hearing clinician in the Public Schools is offered by the Department of Communication Arts and Sciences. Consult the requirements for the major in Speech Pathology and Audiology listed by that department.

## **OTHER EDUCATION COURSES (0801)**

(Courses available to students in more than one Education Program)

0801.101 [29.101] CAREERS IN EDUCATION (2) Guided field experiences, designed to help students expand their a major emphasis. Examination of careers in education and knowledge of careers in education as a basis for choosing the scope of education in a democracy.

0801.315 [29.315] EDUCATIONAL MEASUREMENT FOR CLASSROOM TEACHERS (2) Problems in measurement; principles underlying choice of test instruments; survey of test literature; dealing with test data; constellation and

interpretation of test. Prerequisites: Jr. standing and Ed. Psychology.

0801.325 [29.325] FIELD EXPERIENCES: EDUCATION IN INFORMAL SETTINGS (1-3) Studying and/or working with children in non-classroom settings such as camps, recreational centers, or field trips. Individual plans of study and evaluation will be developed with the instructor. Prerequisite: Consent of instructor.

0801.397 [29.397] PRACTICUM: THE MEDIA CENTER IN THE ELEMENTARY SCHOOL (6) Supervised media center practice in an elementary or middle school. Intended to be taken in one-half of a semester concurrently with 0601.475 Methods for Media Personnel in the Elementary School. Prerequisite: Admission by consent of department chairperson.

0801.398 [29.398] PRACTICUM: THE MEDIA CENTER IN THE SECONDARY SCHOOL (6) Supervised media center practice in a secondary school. Intended to be taken in one-half of a semester concurrently with 0601.477 Methods for Media Personnel in the Secondary School. Prerequisite: Admission by consent of department chairperson.

0801.401 [29.401] FOUNDATIONS OF EDUCATION (2-3) Sociological, philosophical, psychological and historical foundations of western education. Perspectives in these areas as they relate to current educational issues and practices. Three semester hours credit upon consent of department chairman. Prerequisite: Student teaching and consent of Chairman, Department of Secondary Education. (G)

0801.402 [29.402] HISTORY OF EDUCATION (3) Major developments, personalities, and movements in the evolution of education. (G)

0801.403 [29.403] COMPARATIVE EDUCATION (3) A study of patterns of education in different cultural settings with implications for the student of American education. Emphasis on cross-cultural, political, economic and social aspects of education. Prerequisite: Foundations of Education or equivalent. (G)

0801.405 [29.405] PHILOSOPHY OF EDUCATION (3) Philosophic dimensions of the teaching learning process, as discriminated and discussed by major philosophers and educational philosophers. (G)

0801.406 [29.406] RECENT TRENDS IN TEACHING (3) Emerging concepts of teaching and organization for instruction. Prerequisite: Student teaching or senior standing with consent of instructor. (G)

0801.407 [29.407] CONTEMPORARY ISSUES IN EDUCATION (3) Seminar approach to current issues in education. Prerequisite: Student teaching or senior standing with consent of instructor. (G)

0832.408 [54.408] ORGANIZATION AND ADMINISTRATION OF MUSIC EDUCATION (See Music Department Listings.)

0801.409 [29.409] FIELD STUDIES OF THE CHILD AND HIS COMMUNITY (2) Planning and working with groups of children in approved social agencies or making extensive studies of recreational and non-recreational social agencies. Class discussions and field trips. (G)

0801.411 [29.411] OPEN EDUCATION: PHILOSOPHY AND PRACTICE (3) Philosophy and operation of open education schools, planning, management and evaluation. Emphasis on cognitive development. Prerequisite: Teaching experience. (G)

0801.412 [29.412] OPEN EDUCATION: INTERPERSONAL RELATIONS (3) Interaction in team teaching. Human Relations skill development for adults and children. Emphasis on affective domain. Prerequisite: Teaching experience and 0801.411. (G)

- 0801.414 [29.414] EDUCATIONAL TESTS AND MEASUREMENTS (3) Problems in measurement; principles underlying choice of test instruments, survey of test literature; dealing with test data; correlation and interpretation of tests. Not open to those who have had EDUC 0801.315. (G)
- 0801.415 [29.415] EDUCATIONAL STATISTICS (3) Designed as a practical course in statistics for the student in education. Emphasis is upon educational applications of descriptive statistics, including central tendency, variability, and association. Prerequisite: 1701.204, 1701.205 or equivalent. (G)
- 0801.417 [29.417] CHILDREN'S LITERATURE (3) Study of the world of literature for children through wide independent reading as well as examination of non-print materials. Criteria and aids for selection. Attention to authors, illustrators, awards and citations. The importance of literature in the curriculum and in the lives of children. (G)
- 0801.418 [29.418] YOUNG ADULT LITERATURE (3) Examination of literature as an expression of basic needs and ideas of youth through wide independent reading; studying criteria and aids for selection of books and other media; evaluating in terms of forces affecting society and the adolescent. (G)
- 0801.419 [29.419] STORYTELLING (3) The selection and presentation of stories for children. A study of sources for the ins of storytellers. Development of skills in storytelling. Prerequisite: 0801.417 Children's Literature or consent of instructor.
- 0801.425 [29.425] CORRECTIVE READING (2-6) The psychology of reading; methods, principles, techniques, and materials for the classroom teacher in meeting typical learning patterns. Experience in a practicum situation involving the development of skill in analysis and correction of reading disabilities. Prerequisite: 0802.497 and 0802.429 or 0802.427 or consent of instructor. (G)
- 0801.431 [29.431] THE SCHOOL CURRICULUM (3) An examination of curriculum patterns and practices; includes sociological, philosophical and psychological factors which shape the curriculum. Prerequisites: Student teaching or professional experience in education. (G)
- 0801.433 [29.433] THE NON-GRADED CURRICULUM (3) Study and analysis of the non-graded approach to curriculum organization; focus on rationale, principles and models of continuous-progress curricular programs in elementary and secondary schools. Prerequisites: Student teaching or professional experience in education. (G)
- 0801.445 [29.445] HUMAN RELATIONS INSTITUTE ON INTERGROUP EDUCATION I: THE INDIVIDUAL (3) Consideration will be given to: understanding one's self, the nature of prejudice, and environmental factors which influence minority groups and cultures, and relationship of these factors to the development of meaningful educational programs. Prerequisite: For undergraduates: student teaching, and at least one course each in sociology and psychology. For graduates: teaching experience, or certification. (G)
- 0801.446 [29.446] HUMAN RELATIONS INSTITUTE ON INTERGROUP EDUCATION II: THE COMMUNITY (3) Consideration of political, economic, social, and educational factors as they affect minority cultures and implications for school and college programs. Prerequisite: For undergraduates: student teaching and at least one course each in sociology and psychology. For graduates: teaching experience or certification. (G)
- 0801.449 [29.449] CITIZENSHIP EDUCATION IN THE SCHOOL (3) The development and implementation of activities for citizenship education in the school: philosophy, concepts, principles, techniques and resources for teacher and administrator. Prerequisite: Teaching experience, 0801.401, and 0802.375 or equivalents, consent of instructor. (G)
- 0801.451 [29.451] GUIDANCE IN THE PUBLIC SCHOOL (2-3) Scope and function of a guidance program; the role of the classroom teacher in guidance. (G)
- 0801.453 [29.453] SUPERVISORY PRACTICES IN TEACHER EDUCATION (3) Experiences and study in developing particular skills and competencies for supervising quality laboratory/field experiences. Content is designed for supervising teachers, team leaders, and resource personnel. Prerequisite: Teaching experience. Graduates count this as a workshop elective. (G)
- 0801.455 [29.455] INTRODUCTION TO CAREER DEVELOPMENT EDUCATION: THEORY AND PRACTICE (3) Recent trends in career development programs K-12: examining presently operating career programs; evaluating existing career materials; assessing attitudes toward work and the elements of career choice. Prerequisite: Undergraduate: six hours of psychology and senior standing; Graduate: Bachelor's degree or equivalent. (G)
- 0801.461 [29.461] LANGUAGE AND THE URBAN CHILD (3) Language theory in reference to psychological, sociological, and cultural effects in the classroom will be studied. Special emphasis will be given to the analysis of dialects and "standard" and "non-standard" speech patterns as well as practical classroom applications. Prerequisite: Teaching or student teaching experience — or consent of instructor. (G)
- 0801.463 [29.463] GENDER IDENTITY IN EDUCATION (2 or 3) An examination of theories of sex role development and their impact on educational methods and curriculum. Degree candidates must obtain permission of their graduate advisor. Staffed by Education Division. Assistance of Women's Studies Staff may be utilized. The course will carry three credits when scheduled for three hours meeting per week and two credits when scheduled for two hours meeting per week. Prerequisites: Upper level standing. General Psychology and three credits in Psych. and one of the following, depending on major: Elem. Educ. — 0802.361, Early Childhood — 0823.341, Secondary — 0803.319 or 0803.341, permission of instructor. (G)
- 0801.467 [29.467] TEAM TEACHING WORKSHOP (3) Conducted to assist teachers who are actively engaged in team teaching or will be participating as members of a team in the future. (G)
- 0801.470-479 [29.470-479] SPECIAL TOPICS IN EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate program coordinator. Each topic may be taken as a separate course. (G)
- 0834.488 [76.488] AEROSPACE EDUCATION WORKSHOP (3) In cooperation with CAP, USAF, and NASA. A fund of general knowledge about aviation and space exploration. Teaching materials, resources, and field experiences. Usually a week-end at Florida's Cape Kennedy Space Center and other day-long tours. TBA. For K-12 teachers, supervisors, and administrators and students of teaching. LAB FEE \$15 which includes travel charges. Three weeks. Summers only. (G)
- 0801.494 [29.494] TRAVEL AND STUDY EDUCATION: (PROJECT TO BE NAMED) (1-6) Study abroad of educational facilities, programs or practices, or selected projects in educational topics. By special arrangement with program chairperson and sponsoring instructors. Consent of grad-

uate program coordinator required for graduate degree credit. (G)

0801.495 (29.495) INDEPENDENT STUDY IN EDUCATION: (PROJECT TO BE NAMED) (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: approval of appropriate program chairperson. Graduate credit by consent of graduate program coordinator only.

0801.496 (29.496) DIRECTED READINGS IN EDUCATION (1-4) Independent reading in selected areas of Education, in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Graduate credit by consent of graduate program coordinator only.

(G) May be available for graduate credit. See Graduate Catalog.

## Graduate Only

0831.595 (12.595) RESEARCH IN ART AND ART EDUCATION (3) (See Art Dept. Listings.) (G)

0831.697 (12.697) SEMINAR IN ART EDUCATION (3) (See Art Dept. Listings.) (G)

0832.501 (54.501) CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION (See Music Dept. Listings.) (G)

1005.595 (54.595) RESEARCH METHODS IN MUSIC AND EDUCATION (See Music Dept. Listings.)

1701.525 (50.525) SEMINAR IN MATH EDUCATION (See Math Dept. Listings.)

0801.501 (29.501) EDUCATIONAL IDEAS IN HISTORICAL PERSPECTIVE (3) Current trends and issues in education as reflecting and influencing the social, economic, and political forces in our cultural heritage. Prerequisite: 0801.401, 402, or 405.

0801.507 (29.507) HOME, SCHOOL, COMMUNITY (3) The interaction between home and school and community in for working with parents; study of various agencies con-educational programs; survey and evaluation of techniques tributing to the education and well-being of children and youth at home and at school. Prerequisite: A course in Sociology and consent of Department of Education.

0801.511 (25.511) SUPERVISION OF STUDENT TEACHING (3) An analysis of the roles of the cooperating teacher, college supervisor, and student teacher; current practices, issues, problems, trends and evaluation in laboratory experiences, current research. Prerequisite: Teaching experience.

0801.517 (29.517) SCHOOL LAW (3) A study of the legal framework within which the public and non-public schools function. The course will give attention to the legal relationships among federal, state, and local governments; the legal status of school districts, boards of education, and school administrators; the legal status of non-public schools; and the law regarding all facets of the school program, staff, and pupils. Prerequisite: 0801.501.

0801.549 (29.549) AMERICAN POLITICS AND EDUCATION (3) The American political structure and its relation to policy making and administration of public education. Topics include educational opportunity, community responsibility and control, accountability, role of the courts, church-state relations, academic freedom. Prerequisite: Education 0801.401 and Political Science 2207.103 or equivalent.

0801.550 (29.550) ANALYSIS AND MODIFICATION OF TEACHING BEHAVIOR (3) The analysis of teaching learning situations to aid the advanced teacher education students to develop, refine and prescribe skills and

strategies and field work. Prerequisites: Teaching experience, supervisory experience, 0801.471 and/or 0801.511.

0801.585 (29.585) INTERDISCIPLINARY SEMINAR IN PHILOSOPHY AND EDUCATION (3) An interdisciplinary seminar with two aspects: (1) current thought in the philosophy of a variety of academic fields. (2) Their implications for the broad field of education. Concentration will be upon development in the present century.

0801.595 (29.595) INDIVIDUALIZED STUDY (3-6) Individually planned programs which will permit students to engage in research and/or field experiences relative to his professional growth. Prerequisites: Admission by application to the Graduate Program Coordinator only.

0801.601 (29.601) REPRESENTATIVE AMERICAN EDUCATORS (3) A biographical approach to the development of American Education through a selected group of American educators whose contributions have significantly shaped its form and substance from the colonial period to the present. Prerequisite: 0801.401 or equivalent.

0801.607 (29.607) SEMINAR IN EDUCATIONAL CLASSICS I: ANCIENT PERIOD THROUGH THE RENAISSANCE (3) An in-depth study of the classical works of selected authors. Concentration on liberalizing and humanizing influences. A seminar paper will be developed by each student. Prerequisites: Foundations of Education, or History of Education, or Education Ideas in Historical Perspective.

0801.609 (29.609) SEMINAR IN EDUCATIONAL CLASSICS II of the classical works of selected authors. Concentration RENAISSANCE TO THE PRESENT (3) An in-depth study on liberalizing and humanistic influences. Prerequisites: Foundations of Education, or History of Education or Educational Ideas in Historical Perspective.

(G) May be available for graduate credit. See Graduate Catalog.

0801.621 (29.621) READING DISABILITIES (3) The content of this course includes the following: causes of reading disabilities; observation and interview procedures; standard and informal tests; report writing; diagnosis and correction of reading disabilities. Prerequisite: One undergraduate course in the teaching of reading.

0801.623 (29.623) METHODS AND MATERIALS IN TEACHING READING IN THE ELEMENTARY SCHOOL (3) A course in the foundations of reading instruction. Covers trends in methods, materials, and individualized reading designs essential to the organization and administration of a developmental reading program. Prerequisite: One undergraduate course in the teaching of reading.

0801.625 (29.625) CLINIC PRACTICUM IN READING (3) A clinical or laboratory experience. Students diagnose and treat reading disability cases under the supervision of the directors of the reading program. Prerequisite: 0801.621 and 0801.623.

0801.627 (29.627) EVALUATION OF READING RESEARCH (3) The student will be exposed to the tools of research and experimentation. The emphasis will be on past and present research relevant to reading. Prerequisite: Course in Tests and Measurement or Statistics and consent of instructor.

0801.629 (29.629) SEMINAR IN READING (3) An advanced course to familiarize the student with interdisciplinary aspects of the reading process. The highlight of the course will be the team teaching aspect. Consultants such as psychologists, pediatricians, optometrists, guidance teachers, etc. will play an important role in this course. Prerequisite: 0801.621 and 0801.623.

0801.631 (29.631) DIAGNOSIS AND EVALUATION OF READING DISABILITIES (3) Emphasis on the practical uses of standardized and non-standardized instruments and

procedures for evaluating reading disabilities. Prerequisites: 0801.621 Reading Disabilities and 0801.623 Methods and Materials in Teaching Reading in the Elementary School.

0801.691 (29.691) INTRODUCTION TO RESEARCH IN EDUCATION (3) Research as a method for solving problems. Contributions of research to education. Prerequisite: Undergraduate course in Tests and Measurements, or Elementary Statistics, or consent of instructor.

0801.699 (29.699) MASTER EDUCATION THESIS (3) Carefully executed investigation and accurate recording of a specific problem selected with reference to the student's professional goals and resources. Historical, descriptive, experimental, or action research can provide a single or multiple framework within which the student may work. Includes an outline of the proposed thesis submitted for inspection and approval by the Graduate Studies Committee, an application of techniques derived from the research course, and the guidance of Research Adviser.



# English

**Professors:** BEVINS, CRAVER (*Chairperson*), GUESS, HEDGES, HENRY, HUGHES, JONES (*Chairperson*), PLANTE, SHEETS, THEARLE

**Associate Professors:** COULTER, DOUGLAS, ECONOMOU, FLOWER, FRIEDMAN, HANSON, HATCHER, HILL, KOOMJOHN, WOOD

**Assistant Professors:** AVERY, CONNOLLY, DOWLING, FRANKEL, GISENDANNER, HAHN, LEGAULT, WILKOTZ, WOLKOWITZ

**Instructors:** BEHM, THOMAS

To offer the broadest possible service and to meet the needs of the full range of students at the College, the English Department offers several different programs: 1) *General Education* requirements and electives, giving specific, practical training in the writing, reading and language skills necessary for a liberal education; 2) *The English Major*, for students in Liberal Arts and Teacher Education; 3) *The English Major with a Concentration in Writing*, for students who hope to use language skills in careers in business and industry; 4) *The English Minor*, for students who have an avocation for English but choose a different major; and 5) *The Minor in World Literature*, for students who wish to explore interdisciplinary relationships in the study of English, History, and Modern Languages. In addition, the Department supports General Studies concentrations in American Studies, Black Studies, Ethnic Studies, and Women Studies.

All courses offered by the English Department are aimed both at increasing communication skills, through practice in writing, and at appreciating the results of communication skills, through analysis of and response to the tradition of writing in literature. Since people write "about" every subject of human interest, English courses pull together the insights of all disciplines in the perspective of the study of language and literature. As a result, many students add a concentration in English to their regular programs, and others elect courses in English to broaden their academic experience. Today, such study becomes increasingly important not only for fulfilling vocational requirements but also for meeting the demands of daily life.

Every student in the College must complete 1501.102 or 1501.104 (with a grade of C or better) and one semester (3 credit hours) of a lower-division course in English, American, World Literature, Ideas in Literature, Black American Literature, or Themes in American Literature (1501.201, 202, 204, 205, 211, 212, 213, 251, 252, or 271). A student may offer a third course in English in partial fulfillment of the General Education Requirements of the College. The student may, of course, take additional elective credits in English.

Some students will be required to complete special competency courses in language and writing in addition to meeting General Education Requirements in English. Certain foreign-born students will be required to complete English as a Second Language I, II as a prerequisite to enrollment in 1501.102 Freshman Composition. Students whose entering scores indicate they need additional preparation to meet the standards of College-level expository writing will be required to complete either or both of two courses — 4901.110 Explorations in Communication Skills and 4901.101 Preparation for College Writing — as prerequisite to enrollment in 1501.102 Freshman Composition.

## BACHELORS DEGREE — ENGLISH THE ENGLISH MAJOR

(For Students in Liberal Arts or Teacher Education)

### Requirements

Major — Total 36

Lower-Division (100-200 level):

1501.102	Freshman Composition	(3) _____
	OR	
1501.104	Advanced Freshman English	(3) _____
1501.204	English Literature I	(3) _____
1501.205	English Literature II	(3) _____
1501.233	Elements of Poetry	(3) _____

Upper-Division (300-400 level):

1501.351	Approaches to English Studies	(3) _____
	(Required of all students and recommended for Sophomore or Junior Year)	

One of the following:

1501.325	Historical Linguistics	(3) _____
1501.327	Structural Linguistics	(3) _____
1501.329	History of American English	(3) _____
1501.332	Comparative Grammar	(3) _____
1501.430	History of the English Language	(3) _____
1501.431	Structure of the English Language	(3) _____
1501.405	Literary Criticism I	(3) _____

One of the following:

1501.410	Chaucer	(3) _____
1501.412	Milton	(3) _____
1501.415	Shakespeare (Comedies)	(3) _____
1501.416	Shakespeare (Tragedies)	(3) _____

At least one course in each of the following two groups:

#### Group A

1501.302	The English Renaissance	(3) _____
1501.303	17th Century Prose and Poetry	(3) _____
1501.319	English Medieval and Renaissance Drama	(3) _____
1501.320	English Drama — Restoration to Shaw	(3) _____
1501.340	Medieval Literature	(3) _____
1501.345	18th Century English Prose and Poetry	(3) _____
1501.335	The English Romantic Period	(3) _____
1501.422	Development of the English Novel I	(3) _____

#### Group B

1501.309	American Drama	(3) _____
1501.337	Victorian Prose and Poetry I	(3) _____
1501.338	Victorian Prose and Poetry II	(3) _____
1501.423	Development of the English Novel II	(3) _____
1501.427	Literature of the American Romantic Period	(3) _____
1501.428	Literature of the American Realistic Period	(3) _____
1501.435	American Short Story	(3) _____
1501.445	19th Century American Novel	(3) _____
1501.447	Major American Poets to 1900	(3) _____

From the courses listed above or from any department offering, the student must elect one upper-division course in American Literature. The student will need nine more credit hours of upper-division work to complete the 36 hours for the major.

## THE ENGLISH MAJOR WITH A CONCENTRATION IN WRITING

### Requirements

MAJOR — Total 36

*Lower-Division Requirements (100-200 level):*

1501.102	Freshman Composition OR	(3) _____
1501.104	Advanced Freshman Composition	(3) _____
1501.204	Survey of English Literature I	(3) _____
1501.205	Survey of English Literature II	(3) _____

*Upper-Division Requirements (300-400 level):  
one of the following:*

1501.325	Historical Linguistics	(3) _____
1501.327	Structural Linguistics	(3) _____
1501.329	History of American English	(3) _____
1501.332	Comparative Grammar	(3) _____
1501.405	Literary Criticism I	(3) _____
1501.410	Chaucer	(3) _____
1501.412	Milton	(3) _____
1501.415	Shakespeare (Comedies)	(3) _____
1501.416	Shakespeare (Tragedies)	(3) _____
1501.430	History of the English Language	(3) _____
1501.431	Structure of the English Language	(3) _____

*At least one course in each of the following two groups:*

#### Group A

1501.302	The English Renaissance	(3) _____
1501.303	17th Century Prose and Poetry	(3) _____
1501.319	English Medieval and Renaissance Drama	(3) _____
1501.320	English Drama — Restoration to Shaw	(3) _____
1501.340	Medieval Literature	(3) _____
1501.345	18th Century English Prose & Poetry	(3) _____
1501.335	The English Romantic Period	(3) _____
1501.422	Development of the English Novel I	(3) _____

#### Group B

1501.309	American Drama	(3) _____
1501.337	Victorian Prose and Poetry I	(3) _____
1501.338	Victorian Prose and Poetry II	(3) _____
1501.423	Development of the English Novel II	(3) _____
1501.427	Literature of the American Romantic Period	(3) _____
1501.428	Literature of American Realistic Period	(3) _____
1501.435	American Short Story	(3) _____
1501.445	19th Century American Novel	(3) _____
1501.447	Major American Poets to 1900	(3) _____

*Four Upper-Level writing courses, to be selected  
from the following:*

1501.331	Advanced Composition	(3) _____
1501.333	Writing for Business and Industry	(3) _____
1501.334	Advanced Informational Writing	(3) _____
1501.380	Creativity and Style in Writing Non-Fiction	(3) _____
1501.383	Writing Poetry	(3) _____
1501.385	Writing Fiction	(3) _____
1501.437	History of Prose Style	(3) _____
1501.470	Topics in Writing	(3) _____

The student will need six more credits in English, at upper or lower-level, to complete the 36 hours required for the major.

## MINOR IN ENGLISH

### Requirements

Minor — Total 24

1501.102	Freshman Composition OR	(3) _____
1501.104	Advanced Freshman English	(3) _____

*Six hours at the 200 level:*

_____	(3) _____
_____	(3) _____

*Six hours at the upper or lower levels:*

_____	(3) _____
_____	(3) _____

*Nine hours at the upper levels:*

_____	(3) _____
_____	(3) _____
_____	(3) _____

Apart from Freshman Composition, 1501.102 or 1501.104, no specific courses are stipulated. The one additional requirement is that students must work with departmental advisors to design programs which, while individually tailored, will be coherent and purposeful.

## MINOR IN WORLD LITERATURE

### Requirements

General — Total 44

Minor — Total 24

*Lower-Division Requirements (100-200 level — 6 hours<sup>1</sup>)*

1501.102	Freshman Composition OR	(3) _____
1501.104	Advanced Freshman Composition	(3) _____
1501.201	World Literature I OR	(3) _____
1501.202	World Literature II	(3) _____

*Upper-Division Requirements (300-400 level) — 6 hours*

1501.301	Topics in World Literature	(3) _____
1501.312	World Drama I	(3) _____
1501.313	World Drama II	(3) _____
1501.321	Modern Drama	(3) _____
1501.323	The Continental Novel	(3) _____
1501.326	Myth and Literature	(3) _____
1501.328	History and Literature of the Old Testament	(3) _____
1501.347	Folklore and Literature	(3) _____
1501.405	Literary Criticism I	(3) _____
1501.407	Modern Poetry	(3) _____
1501.408	Modern Fiction to World War II	(3) _____
1501.409	Modern Fiction Since World War II	(3) _____

*Lower-Division Electives (100-200 level) — up to 6 hours*

1501.210	Introduction to Folklore	(3) _____
1501.213	Ideas in Literature	(3) _____
1501.226	Introduction to Classical Mythology	(3) _____
1501.235	The Continental Short Story	(3) _____
1501.237	The Novella in European and Russian Literature	(3) _____

*Modern Language 202 (fourth semester) Intermediate*

2205.101	Introduction to Ancient Civilization <sup>2</sup>	(3) _____
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<sup>1</sup> Up to twelve hours of upper-division English may be offered; up to six hours of upper-division non-English may be offered.

<sup>2</sup> Only one three-credit course in History may be offered to fulfill requirements for the Minor.



2205.241 History of European Civilization I (3) \_\_\_\_\_  
OR

2205.242 History of European Civilization II (3) \_\_\_\_\_

#### Upper-Division Electives<sup>1</sup>

1501.301 Topics in World Literature (3) \_\_\_\_\_

1501.312 World Drama I (3) \_\_\_\_\_

1501.313 World Drama II (3) \_\_\_\_\_

1501.321 Modern Drama (3) \_\_\_\_\_

1501.323 The Continental Novel (3) \_\_\_\_\_

1501.326 Myth and Literature (3) \_\_\_\_\_

1501.328 History and Literature of the Old Testament (3) \_\_\_\_\_

1501.347 Folklore and Literature (3) \_\_\_\_\_

1501.405 Literary Criticism I (3) \_\_\_\_\_

1501.407 Modern Poetry (3) \_\_\_\_\_

1501.408 Modern Fiction to World War II (3) \_\_\_\_\_

1501.409 Modern Fiction Since World War II (3) \_\_\_\_\_

History: any course directly related to the student's major and approved for credit towards the Minor in World Literature by the World Literature and Linguistics Division Chairperson.<sup>2</sup> (3) \_\_\_\_\_

Philosophy, Art, etc.: Any course directly related to a student's major and approved for credit towards the Minor in World Literature by the World Literature and Linguistics Chairperson. (e.g. Italian Major may offer a course in Renaissance Art.) (3) \_\_\_\_\_

#### Advising

All students in major or minor programs must register with the Department and are urged to consult with their departmental advisors in planning each semester's course of study.

#### Foreign Language

The Department strongly recommends that students who plan to enter graduate study in English earn a B.A. by completing the intermediate level of a foreign language.

#### Transfer Credit

The English Department freely accepts English credits from accredited Colleges and Universities. However, to meet General Education requirements, a student must either present 3 transfer credits in a composition course, with a grade of C or better, or earn a C or better in 1501.102 at Towson State College. Students registering in the Department's major and minor programs must complete a minimum of 12 credits in English Department offerings at Towson State College.

#### Teacher Education Program for English Majors

The Education Department requires that a student preparing to teach English take either 1501.332 Comparative Grammar or 1501.431 Structure of the English Language. It strongly recommends an additional linguistics course, experience with mythology or folklore, an advanced writing course, and study of a minority literature.

#### Advanced Placement and Credit for Prior Experience

The English Department participates in the Advanced Placement Program of the College. A selected number of entering freshmen are placed in 1501.104 rather than in 1501.102. It also offers credit for most courses through the Credit for Previous Learning or Experience Program. Stu-

dents applying for credit under this program complete an examination, an interview, and a paper in the area.

#### Honors in English, Dual Major, and Graduate Program

The English Department participates in the College Honors Program. Students interested in completing an English Major with Honors should consult no later than first semester of the Junior year with one of the Department Co-Chairs.

Students who major in one of the other programs of the College, yet retain a strong avocation of interest in Language, Literature, or Writing, are urged to explore with one of the Department Co-Chairs the possibility of completing a dual major.

The Department now supports a post-baccalaureate degree, the Master of Education in Secondary Education with Specialization in English (see *Graduate Bulletin* for description of requirements).

#### English Course Prerequisites

1501.102 or 1501.104 is prerequisite to all other English courses. The second course will be one of the following: 1501.201, 1501.202, 1501.204, 1501.205, 1501.211, 1501.212, 1501.213, 1501.251, 1501.252, or 1501.272. Concurrently with these courses, a student may take any lower-division (200-level) elective in English. Two lower-division English courses, including 1501.102 or 104, are prerequisite to registration for most upper-division (300-400 level) English courses (exceptions are noted in the course descriptions following).

#### ENGLISH COURSES (1501)

##### Lower Division — Undergraduate

4901.101 PREPARATION FOR COLLEGE WRITING (3) Review of principles of mechanics, sentence construction, and paragraph development. The course will be a prerequisite to 1501.102 Freshman Composition, required for those students whose entering scores indicate they need additional preparation to meet the standards of College-level expository writing. Prerequisite: Department placement.

4901.113-114 ENGLISH AS A SECOND LANGUAGE I, II (5, 5) A comprehensive review of the fundamentals of English grammar aimed at developing oral-aural and written proficiency in college-level English for the non-native speaker. Students are placed in this course on recommendation of ESOL committee.

1501.102 (30.102) FRESHMAN COMPOSITION (3) Review of grammar, writing of compositions, and reading of various forms of literature.

1501.104 (30.104) ADVANCED FRESHMAN ENGLISH (3) Readings in expository and imaginative literature, short compositions, and research experience. Open only to freshmen selected by the English Department on the basis of superior high school records and aptitude test scores; for them 1501.104 replaces 1501.102.

1501.201-202 (30.201-202) READINGS IN WORLD LITERATURE I, II (3, 3) First Semester — European writings in translation from the time of Homer to the Renaissance; second semester — European writings in translation from the Renaissance to 1900.

1501.204-205 (30.204-205) ENGLISH LITERATURE I, II (3, 3) First semester — the Middle Ages through the Neoclassical Age; second semester — the Romantics through the moderns.

<sup>1</sup> Up to twelve hours of upper-division English may be offered; up to six hours of upper-division non-English may be offered.

<sup>2</sup> Only one three-credit course in History may be offered to fulfill requirements for the Minor.

- 1501.210 (30.210) INTRODUCTION TO FOLKLORE (3) Aspects of folklore relevant to literature. Emphasis on the various forms and materials of folk narrative (fairy tale, legend, etc.) Focus on English, Irish, and American tales; other countries considered. Ethnic folklore, proverbs, superstitions, and folklore archaeology included according to student interest.
- 1501.211-212 (30.211-212) AMERICAN LITERATURE I, II (3, 3) First semester — Major writers from the Colonial Period to the Civil War; second semester — Major writers since the Civil War.
- 1501.213 (30.213) IDEAS IN LITERATURE (3) A thematic approach to selected American, British, and World Literature. Variation in content; may be re-elected once for credit in a different theme.
- 1501.224 (30.224) ELEMENTS OF FICTION (3) Techniques of fiction, with emphasis on the short story.
- 1501.226 (30.226) INTRODUCTION TO CLASSICAL MYTHOLOGY (3) The study of myth in selected works from Greek and Roman literature.
- 1501.233 (30.233) ELEMENTS OF POETRY (3) Versification, and the forms and purposes of poetry.
- 1501.235 (30.235) THE CONTINENTAL SHORT STORY (3) Study of the trends and styles of short fiction as expressed by major continental writers such as Dostoevsky, Tolstoy, Kafka, Brecht, Mann, Gide, Camus, Sartre, Pirandello, Moravia, and Silone.
- 1501.237 (30.237) THE NOVELLA IN EUROPEAN AND RUSSIAN LITERATURE (3) Study of the 19th and 20th Century European and Russian Short Novel. Readings in such authors as Maupassant, Tolstoy, Andreyev, Gide, Faulbert, Mann, Moravia, Dostoevsky, Hesse, Balzac, Chekov, Kafka, and Solzhenitsyn.
- 1501.243 (30.243) ELEMENTS OF DRAMA (3) Forms of drama, with emphasis upon structure and convention.
- 1501.251-252 (30.251-252) BLACK AMERICAN LITERATURE I, II (3, 3) First semester — Early European travelogues, the problems of prejudice, psychological motives in Black history movements, and racial climates of various literary periods studied in conjunction with a survey of the literature of the Black American, 1619 to present; second semester — Major contemporary black writers, including Wright, Baraka, Ellison, Hughes.
- 1501.261 (30.261) AMERICAN ETHNIC LITERATURE (3) Comparative analysis of the literary contributions of Black, Jewish, Italian, Greek, Slavic, and other "immigrant" American writers. Ethnic literature examined for its relationship to "mainstream" American writing, to society, and to ourselves.
- 1501.271 (30.271) THEMES IN AMERICAN LITERATURE (3) Detailed examination of a particular theme prominent in American literature, such as the American dream, the American businessman, the American experience abroad, the new American Eden. Themes vary from semester to semester. May be re-elected one time in a different theme.
- 1501.283 (30.283) INTRODUCTION TO IMAGINATIVE WRITING (3) Theories and technical considerations pertinent to writing poetry and fiction, with discussion of student writing. Consent of instructor. Offered by Department on a S/F basis.
- Upper Division — Undergraduate Only
- 1501.331 (30.331) ADVANCED COMPOSITION (3) Study of expository style and practice in writing and criticizing non-fiction prose, with attention to individual student writing concerns and analysis of student writing in class.
- 1501.333 (30.333) WRITING FOR BUSINESS AND INDUSTRY (3) Designed to familiarize students of business and the social and natural sciences with various forms of writing for business and industry. Class projects, which include correspondence, abstracts, reports, the manual, and the journal article, will be individualized to suit the background and interest of each student.
- 1501.334 (30.334) ADVANCED INFORMATIONAL WRITING (3) Techniques for gathering and presenting information through the report. Major sources for research, the fundamentals of presenting information in written form, and the applications of the major report formats. Projects individualized to meet the needs of students in a variety of disciplines.
- 1501.351 (30.351) APPROACHES TO ENGLISH STUDY (3) English as an academic discipline, critical approaches to literature; methods of investigation in language and literature. To be elected as soon as the English major has completed two lower-division courses in English.
- 1501.380 (30.380) CREATIVITY AND STYLE IN WRITING NON-FICTION (3) Practice and theory in the areas of imaginative thought and skillful phrasing that distinguish prose possessing creativeness and rendering impact from mere competent writing. The nature of creativity, concreteness, tone, imagery, figures of speech, sound effects, connotation and denotation, conciseness, sentence emphasis and variety, honest and dishonest use of language.
- 1501.383 (30.383) WRITING POETRY (3) The nature of the creative process and the art of imaginative expression as they apply to writing poetry. Consent of instructor. Offered by Department on a S/F basis.
- 1501.385 (30.385) WRITING FICTION (3) The nature of the creative process and the art of imaginative expression as they apply to writing fiction. Consent of instructor. Offered by Department on a S/F basis.
- 1501.397 (30.397) ENGLISH PRACTICUM (3-9) Students are required to work in assigned projects in actual job environments. Priority will be given to seniors. Open to highly qualified juniors. Credit received for Practicum may not be applied towards hours necessary to complete the English major. May be re-elected for a maximum total of nine credit hours. Prerequisite: Junior standing, major in English, and consent of department.
- 1501.470 (30.470) TOPICS IN WRITING (3) Specialized topics for writers of non-fiction, fiction, and poetry. Topics vary from semester to semester. May be re-elected for credit in different topic.
- Upper Division — Undergraduate and Graduate
- 1501.302 (30.302) THE ENGLISH RENAISSANCE (3) Non-dramatic literature of the Elizabethan period.
- 1501.303 (30.303) SEVENTEENTH-CENTURY ENGLISH PROSE AND POETRY (3) Major English non-dramatic literature of the seventeenth century; the approach will be both critical and historical.
- 1501.309 (30.309) AMERICAN DRAMA (3) A study of the American drama from the beginning to the present.
- 1501.312 (30.312) WORLD DRAMA I (3) An historical and critical study of world drama and the cultural forces which produced it from the ancient Greeks to the Neo-Classical period.
- 1501.313 (30.313) WORLD DRAMA II (3) An historical and critical study of world drama and the cultural forces which produced it from the Neo-Classical period to the late nineteenth century.

- 1501.319 [30.319] ENGLISH MEDIEVAL AND RENAISSANCE DRAMA (3) Development of the English Drama from the Middle Ages through the Renaissance, excluding Shakespeare.
- 1501.320 [30.320] ENGLISH DRAMA FROM THE RESTORATION TO SHAW (3) Development of the English Drama in the seventeenth, eighteenth, and nineteenth centuries.
- 1501.321 [30.321] MODERN DRAMA (3) Critical reading of plays of the late nineteenth century and the twentieth century.
- 1501.323 [30.323] THE CONTINENTAL NOVEL (3) A study of major continental novels in translation. Emphasis will be upon related and comparative elements in the novels of writers of France, Germany, Italy, and other European countries.
- 1501.325 [30.325] HISTORICAL LINGUISTICS (3) An introduction to language typology and Indo-European philology; historical development of linguistics up to the twentieth century.
- 1501.326 [30.326] MYTH AND LITERATURE (3) Literary re-interpretations of themes and figures from Greek and Roman mythology.
- 1501.327 [30.327] STRUCTURAL LINGUISTICS (3) A study of the developments in linguistic theory in the twentieth century; major figures, DeSaussure, Sapir, Bloomfield, Trubetzkoy, Chomsky.
- 1501.328 [30.328] HISTORY AND LITERATURE OF THE OLD TESTAMENT (3) The chief books of the Old Testament and the Apocrypha studied from a literary and historical point of view.
- 1501.329 [30.329] HISTORY OF AMERICAN ENGLISH (3) Origins and history of American dialects; development of elements of vocabulary, sounds, and grammar which distinguish American English; standards of American English.
- 1501.332 [30.332] COMPARATIVE GRAMMAR (3) Study of English grammar: traditional, structural, transformational.
- 1501.335 [30.335] LITERATURE OF THE ENGLISH ROMANTIC PERIOD (3) Major writers, social and political background, important literary ideas, and criticism.
- 1501.337 [30.337] VICTORIAN PROSE AND POETRY I (3) A study of the works of Tennyson, Arnold, and the Victorian "prophets"—Macaulay, Carlyle, Newman, and Mill.
- 1501.338 [30.338] VICTORIAN PROSE AND POETRY II (3) A study of the works of Browning, Ruskin and the Pre-Raphaelites, Pater, Hardy, Housman, and Yeats.
- 1501.340 [30.340] MEDIEVAL LITERATURE (3) English literature during the Middle Ages, with emphasis on the mystical writers, Piers Plowman, the Gawain-poet, and Arthurian literature.
- 1501.345 [30.345] EIGHTEENTH-CENTURY ENGLISH PROSE AND POETRY (3) A study of backgrounds, literary trends, and significant authors, with emphasis on Swift, Pope, Johnson, and Boswell.
- 1501.347 [30.347] FOLKLORE AND LITERATURE (3) How and why literary artists draw plots, characters, themes, and style from ancient folk tradition: the anonymous oral narratives, songs, jests, and proverbs that circulate in all cultures. Focus on universal folkloric material in such works as the Bible, Aesop's Fables, the Arabian Nights, Peer Gynt, and Harvest Home.
- 1501.365 [30.365] PRACTICUM IN ENGLISH: GRAMMAR AND RHETORIC (3) Intense review of grammatical and rhetorical skills, coupled with the opportunity for the student to apply those skills through teaching. Students meet two hours each week with the Practicum instructor, who guides their study and review and directs their teaching. For another two hours the student teaches two English 101 sections under the supervision of the Practicum instructor. Prerequisites: three English courses; Junior or Senior standing; B-average or higher in all English courses; consent of instructor.
- 1501.401 [30.401] THE LITERATURE OF BLACK AMERICA (3) The literature of black expression in the United States with emphasis on the twentieth century. Non-fiction, fiction, and poetry.
- 1501.405 [30.405] LITERARY CRITICISM I (3) History and principles of literary criticism.
- 1501.407 [30.407] MODERN POETRY (3) Works of the important twentieth century poets.
- 1501.408 [30.408] MODERN FICTION TO WORLD WAR II (3) Work of the modern masters of fiction, with emphasis on Proust, Mann, and Joyce.
- 1501.409 [30.409] MODERN FICTION SINCE WORLD WAR II (3) Works of the significant writers—English, American, and Continental—of the past thirty years, including such figures as Grass, Robbe-Grillet, Solzhenitsyn, and Burgess.
- 1501.410 [30.410] CHAUCER (3) A study of the major poetry.
- 1501.412 [30.412] MILTON (3) A study of the poetry and major prose works.
- 1501.415 [30.415] SHAKESPEARE (COMEDIES) (3) Shakespeare's development as a poet and a dramatist during the period of the comedies and historical plays.
- 1501.416 [30.416] SHAKESPEARE (TRAGEDIES) (3) The great tragedies and the late romantic comedies of Shakespeare.
- 1501.419 [30.419] TWENTIETH-CENTURY BRITISH NOVEL (3) Survey of the British novel from Conrad to the present.
- 1501.420 [30.420] TWENTIETH-CENTURY BRITISH POETRY (3) Survey of British poetry from Hopkins to the present.
- 1501.422 [30.422] DEVELOPMENT OF THE ENGLISH NOVEL I (3) History and development of the English novel through the eighteenth century.
- 1501.423 [30.423] DEVELOPMENT OF THE ENGLISH NOVEL II (3) History and development of the English novel in the nineteenth century.
- 1501.427 [30.427] LITERATURE OF THE AMERICAN ROMANTIC PERIOD (3) Major writers, social and political background, important literary ideas, and criticism.
- 1501.428 [30.428] LITERATURE OF THE AMERICAN REALISTIC PERIOD (3) Major writers, social and political backgrounds, important literary ideas, and criticism.
- 1501.430 [30.430] HISTORY OF THE ENGLISH LANGUAGE (3) Changes and reasons for the changes in grammar, sound, and vocabulary of the language from Old English to modern times.
- 1501.431 [30.431] STRUCTURE OF THE ENGLISH LANGUAGE (3) A linguistic approach to sounds, forms, syntax, and usage.
- 1501.435 [30.435] AMERICAN SHORT STORY (3) A study of the American short story from the beginning to the present.
- 1501.437 [30.437] BRITISH AND AMERICAN PROSE (3) A study of English and American non-fictional prose, with emphasis on form and style.
- 1501.445 [30.445] NINETEENTH-CENTURY AMERICAN NOVEL (3) A study of major American novelists of the nineteenth century with emphasis on Cooper, Melville, Hawthorne, Howells, James, Crane, and Norris.

- 1501.446 [30.446] TWENTIETH-CENTURY AMERICAN NOVEL (3) A study of major American novelists of the twentieth century with emphasis on James, Fitzgerald, Hemingway, Faulkner, Malamud, Bellow, Barth, and Nabokov.
- 1501.447 [30.447] AMERICAN POETRY THROUGH ROBERT FROST (3) A study of American poetry from its beginnings through Robert Frost. Emphasis on major figures.
- 1501.448 [30.448] TWENTIETH-CENTURY AMERICAN POETRY (3) A study of major American poets from T. S. Eliot to the present.
- 1501.471 [30.471] TOPICS IN WORLD LITERATURE (2-3) Consideration of special figures, periods, genres, or conventions. Variation in content from year to year; may be re-elected.
- 1501.472 [30.472] TOPICS IN ENGLISH LITERATURE (2-3) Consideration of special figures, periods, genres or conventions. Variation in content from year to year; may be re-elected.
- 1501.473 [30.473] TOPICS IN AMERICAN LITERATURE (2-3) Consideration of special figures, periods, genres, or conventions. Variation in content from year to year; may be re-elected.
- 1501.474 [30.474] TOPICS IN WOMEN'S STUDIES (3) Consideration of selected literature by or about women. Variation in content from year to year; may be re-elected.
- 1501.475 [30.475] TOPICS IN MULTI-ETHNIC AMERICAN LITERATURE (3) A study of Ethnic-American poetry and prose. Possible topics include: Native American literature; Immigrant Fiction; Eastern and Southern European-American authors; Jewish writers; Hispanic-American writers; Women in Ethnic Literature. Variation in content from year to year; may be re-elected.
- 1501.485, 486 [30.485, 486] SEMINAR IN ENGLISH STUDIES I, II (3, 3) Thorough study of one major area of English, American, or World literature (author, period, movement, etc.) not available through other electives. Areas vary from semester to semester; may be taken one or two semesters. Prerequisites: junior standing and consent of instructor.
- 1501.491 [30.491] DIRECTED READING IN ENGLISH (2-4) Independent reading in literature or in related disciplines dealing with the specific periods, topics, problems, or comparative developments of literature. Topic selected by student in consultation with the instructor. Prerequisites:

18 hours in English, or 12 hours in English and 6 in a related discipline; minimum 3:00 averages in English and the related discipline; consent of Department chairperson and instructor. May be repeated for credit.

- 1501.494 [30.494] TRAVEL AND STUDY (3-6) Countries and topics to be selected by the Departments and instructors sponsoring the program. For enrollment procedures, write the Chairperson of the Department early in the fall of the academic year preceding the summer of intended study.

- 1501.499 [30.499] HONORS THESIS (4-7) An in-depth treatment of a topic chosen by the student in consultation with his/her Thesis advisor. Thesis proposal subject to approval of College Honors Board. Subject areas include literary criticism (any methodology), creative writing (any genre), expository writing. Prerequisites: Restricted to candidates for Honors in English.

## Graduate Division

- 1501.521 [30.521] STUDIES IN ENGLISH LITERATURE (3) Thorough study of one major area of English Literature (author, period, movement, etc.). Areas covered vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.

- 1501.523 [30.523] STUDIES IN LITERARY CRITICISM (3) Thorough study of one major area of Literary Criticism (author, period, movement, etc.). Areas covered vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.

- 1501.525 [30.525] STUDIES IN AMERICAN LITERATURE (3) Thorough study of one major area of American Literature (author, period, movement, etc.). Areas covered vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.

- 1501.527 [30.527] STUDIES IN WORLD LITERATURE (3) Thorough study of one major area of World Literature (author, period, movement, etc.). Areas covered vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.

- 1501.531 [30.531] STUDIES IN LINGUISTICS (3) Topics in the technology and philosophy of language: descriptive grammar, psycholinguistics, sociolinguistics, etc. Topic to vary. Prerequisite: Graduate standing and consent of instructor.



# Geography and Environmental Planning

**Professors:** BEISHLAG, FIRMAN

**Associate Professors:** DIFFENDERFER (Chairperson),  
MARTIN

**Assistant Professors:** HAYUK, McKIM, SCOTT, STEVENSON

**Instructors:** DILISIO

The Department offers a major and a minor in geography. The purpose of the major is to encourage the student to explore the discipline in some depth. Such investigation, performed well, leads to an appreciation of the structure and function of an area prepares the student for graduate work, and offers excellent background for many careers, particularly teaching and certain types of government service. The student is also expected to take correlative courses which broaden his academic background and offer valuable insights into the subject.

## BACHELORS DEGREE . . . GEOGRAPHY

### Requirements

**MAJOR** — total — 10 courses — 30 hours

*3 courses — 9 hours — at the 100-200 level*

\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_

*3 courses — 9 hours of Systematic or Technique Courses*

\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_

*4 courses — 12 hours of Regional, Seminars or Special Courses*

\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_

**MINOR** — total — 6 courses — 18 hours

*2 courses — 6 hours — at the 100-200 level*

\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_

*4 courses — 12 hours — from 300-400 level courses*

\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_\_ (3) \_\_\_\_\_

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

### Transfer Students

Geography majors may transfer up to 12 hours toward a major and must take 18 hours of upper division courses at Towson.

Geography minors may transfer up to six hours toward a minor and must take 12 hours of upper division courses at Towson.

## Master of Arts in Geography

The Master of Arts in Geography is designed for students who are primarily interested in an advanced degree.

Masters in Education (emphasis in geography, see Secondary Education).

### Requirements

#### 1. Undergraduate Requirements

- At least an undergraduate minor in Geography or the equivalent.
- At least a "B" grade average in the geography courses presented for admission.
- The Graduate Record Examination may be requested at the option of the Geography Department.
- Applicants not meeting the above requirements may be admitted conditionally in accordance with the Graduate Division regulations concerning conditional admission.

#### 2. Requirements for the Degree

Fulfillment of all requirements will be at the discretion of the department. A program of study will be prepared by each student in consultation with his advisor and will be presented to the Graduate Committee of the Department of Geography and Environmental Planning for approval.

All students must present evidence of at least a fourth semester of college level competency in one modern language OR Geography 2206.375 (or an approved equivalent) plus at least one other approved course in statistics or computer techniques. Students may elect one of the following two plans of study.

##### a. Plan A. Master of Arts with Thesis

- Completion of a total of at least 30 semester hours of geography, 6 of which will be met by a thesis.
- At least 15 semester hours of geography must be earned at the 500-600 levels.
- A thesis in geography which demonstrates the student's ability to do independent research.
- Course requirements for the Degree
  - Geography 2206.481 (3 hrs.)
  - Geography 2206.521 (3 hrs.)
  - Geography 2206.699 (6 hrs.)
  - Electives planned with advisor (18 hrs.)

##### b. Plan B. Master of Arts without a Thesis

- Completion of at least 36 semester hours of geography.
- At least 18 semester hours in geography must be earned at the 500-600 levels.
- Course requirements
  - Geography 2206.481 (3 hrs.)
  - Geography 2206.521 (3 hrs.)
  - Electives planned with advisor (30 hrs.)

#### 3. Advancement to Degree Candidacy Examination

An examination is required for Advancement to Degree Candidacy. The examination may be taken after completion of 9 semester hours (6 hours of which must be at the 500 and 600 levels) and may not be taken later than the semester following the one in which 15 hours are completed. Part of the examination may be conducted orally.

#### 4. Comprehensive Examination

The department maintains the right to require a Comprehensive Examination at the conclusion of all other degree requirements.

### GEOGRAPHY COURSES (2206)

#### Lower Division — Undergraduate

2206.101 (34.101) ELEMENTS OF GEOGRAPHY I (3) Introductory topical studies of fundamental natural and selected cultural phenomena in man's environment. Emphasis on climate, landforms, soils, vegetation, and minerals. No prerequisite.

2206.102 (34.102) ELEMENTS OF GEOGRAPHY II (3) Introductory regional studies of man in relation to his natural and cultural environments. Emphasis is on the distinctive and comparative nature of major regions; man's utilization of resources. No prerequisite.

2206.121 (34.121) INTERPRETATION OF MAPS (3) Introduction to map elements and map interpretation; study of various types of maps, index systems, and general application of maps in geography. No prerequisite.

2206.221 (34.221) CULTURAL GEOGRAPHY (3) Study of origins and diffusion of cultures and the resulting impact in creating the world's contrasting cultural landscapes. No prerequisite.

2206.231 (34.231) ECONOMIC GEOGRAPHY (3) Regional distribution of the world's resources, industries, and population; emphasis upon problems of international trade. An analysis of the productive and extractive industries, manufacturing and commerce in relation to the geographic environment. No prerequisite.

2206.251 (34.251) INTRODUCTION TO URBAN PLANNING (3) The sequential origins of planning and urban design, a study of contemporary planning practice, and an analysis of the social, economic and political context of plan formulation and implementation.

2206.299 (34.299) INTRODUCTION TO SOURCE MATERIALS AND RESEARCH IN GEOGRAPHY (3) Designed to provide the student with a basic working knowledge of research materials; study and review of principal reference literature, journals, and other sources of data used in geographic field and library research. Students may be required to do field work. No prerequisite.

#### Upper Division — Undergraduate and Graduate

### SYSTEMATIC COURSES

2206.319 (34.319) SOILS AND VEGETATION (3) A resource study of the world's soil and plant formations with emphasis placed upon their genesis and spatial differentiations. Prerequisite: 2206.101-102 or consent of instructor.

2206.351 (34.351) URBAN DESIGN — MAN-SPACE-ENVIRONMENT (3) The physical planning process at the immediate, perceptual level. The relation of environment and behavior is explored, different urban areas are analyzed and a short design problem will be assigned. Prerequisite: 2206.101-102 or consent of instructor.

2206.361 (34.361) ADVANCED ECONOMIC GEOGRAPHY (3) Studies mainly of the secondary and tertiary industries with some emphasis on quantitative analyses of selected economic activities. Prerequisite: Six hours of Geography including 2206.231.

2206.371 (34.371) ADVANCED PHYSICAL GEOGRAPHY (3) Detailed analysis of characteristics, distribution, and

geographical significance of the earth's physical features. Prerequisite: Six hours of Geography or consent of instructor.

2206.373 (34.373) CLIMATOLOGY (3) Character, causes, and distribution of climatic types. Emphasis upon world patterns. Students may be required to do field work. Prerequisite: Six hours of Geography or consent of instructor.

2206.375 (34.375) QUANTITATIVE METHODS IN GEOGRAPHY (3) Focus on statistical problems associated with the analysis of geographic data. Emphasis on the unique spatial problems of point pattern analysis, areal association, and regionalization. Prerequisite: Six hours of Geography 1701.119, on consent of instructor.

2206.377 (34.377) DESCRIPTIVE METEOROLOGY (4) An introduction to the various meteorological elements. Emphasis is placed on the interaction of temperature, pressure, wind, and moisture in creating weather patterns. Three hours of lecture and two hours of laboratory. Field work may be required. Prerequisites: Six hours of Natural Science or Geography or the equivalent.

2206.381 (34.381) POLITICAL GEOGRAPHY (3) Effect of political groupings upon man's use of the world, and the influence of the geographic base upon political power. Prerequisite: Six hours of Geography or consent of instructor.

2206.385 (34.385) GEOGRAPHY OF POPULATION AND SETTLEMENT (3) Regional analysis of environmental resource factors contributing to various population densities and the resultant settlement patterns of man's use of the land. Prerequisite: Six hours of Geography or consent of instructor.

2206.391 (34.391) URBAN GEOGRAPHY (3) Survey of the structure, functions, forms and development of urban units. Emphasis upon the locational features of social, economic, and cultural phenomena. Field work. Prerequisite: Six hours of Geography or consent of instructor.

2206.401 (34.401) GROWTH OF GEOGRAPHIC THOUGHT (3) History, nature, and methodology of geography as a discipline. Analysis of schools of geographic thought; critical evaluation of important geographic works. Prerequisite: Six hours of Geography or consent of instructor.

### TECHNIQUE COURSES

2206.321 (34.321) INTERPRETATION OF AERIAL PHOTOGRAPHS (3) Reading and interpretation of aerial photographs. The application of the aerial photograph in the fields of geography, geology, and photogrammetry.

2206.323 (34.323) CARTOGRAPHY AND GRAPHICS I (3) Study in design, construction, and effective application of maps and charts for analysis and publication; practical exercises in the use of cartographic tools, materials, and techniques.

2206.324 (34.324) CARTOGRAPHY AND GRAPHICS II (3) Continued exercises in map graphics and areal distribution maps. New techniques in presentation of graphic data and spatial relationships. Prerequisite: 2206.323.

2206.327 (34.327) MAP ANALYSIS AND INTERPRETATION (3) Principal types of maps and their uses. Emphasis on understanding map components and the range of physical and cultural phenomena indicated on maps. Includes selected exercises which illustrate the analytical and graphical values of maps.

2206.341 (34.341) TECHNIQUES AND MATERIALS FOR GEOGRAPHY TEACHERS (3) A systematic review of geographic concepts in relation to interdisciplinary studies in the physical and social sciences. Examination of the content of geography and problems of presentation.

## REGIONAL COURSES

- 2206.419 [34.419] EASTERN ANGLO-AMERICA (3) A description, an analysis, and an interpretation of the landscapes of Eastern United States and Southeastern Canada. A regional treatment of the natural and cultural settings with attention given to international relations. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.420 [34.420] WESTERN ANGLO-AMERICA (3) A description, an analysis, and an interpretation of the landscapes of Western United States and Northern and Western Canada. A regional treatment of the natural and cultural settings with attention to international relations. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.423 [34.423] GEOGRAPHY OF MARYLAND (3) The effect of the physical background of Maryland on the economic and cultural development of the state. Outside influences, such as the transportation net of the Eastern United States, Megalopolis, and the nearby location of the national capital. Field trips. Prerequisite: 2206.101 and 2206.102 or consent of instructor.
- 2206.431 [34.431] GEOGRAPHY OF AFRICA (3) Material resources and human geography of Africa. Problems of economic development, nationality and cultural conflicts. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.441 [34.441] GEOGRAPHY OF AUSTRALIA AND OCEANIC (3) Regional approach in analyzing and interpreting the physical and cultural patterns, natural resources, current problems, and strategic importance of the Pacific world. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.443 [34.443] GEOGRAPHY OF EAST ASIA (3) Regional studies of the physical and cultural foundations in China, Japan, and Korea. Emphasis upon human and economic resources, and role in world affairs. Prerequisite: six hours of Geography or consent of instructor.
- 2206.445 [34.445] GEOGRAPHY OF SOUTH AND SOUTHEAST ASIA (3) Regional studies of the physical and cultural foundations of India, Pakistan, Ceylon, Philippines, and Indonesia. Principal human and economic resources, problems of development, and role in world affairs. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.447 [34.447] ECONOMIC AND POLITICAL GEOGRAPHY OF THE MIDDLE EAST (3) A regional and systematic analysis of Southwest Asia and North Africa. Study of major natural and cultural resources and related patterns of spatial organization, economic and political development, and associated problems. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.451 [34.451] GEOGRAPHY OF EUROPE (3) Regional analysis and appraisal of the human geography and natural resources of Europe. Problems of nationality, economic development, and cultural conflicts. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.453 [34.453] GEOGRAPHY OF THE USSR (3) Physical and cultural patterns and their bearing on the Soviet Union as a world power. Regional distribution and use of natural and human resources in agriculture and industry. Problems in economic development and production. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.461 [34.461] GEOGRAPHY OF SOUTH AMERICA (3) Distribution and character of the economic activities in various South American countries in relation to physical and cultural features. Resources and problems of their development; importance of foreign trade to the economy; relationship with the United States. Prerequisite: Six hours of Geography or consent of instructor.

- 2206.463 [34.463] GEOGRAPHY OF CENTRAL AMERICA AND THE CARIBBEAN (3) Distribution and character of the economic activities in various Central American and Caribbean countries in relation to physical and cultural features. Resources and problems of their development; importance of foreign trade to the economy; relationship with the United States. Prerequisite: Six hours of Geography or consent of instructor.

## SEMINARS AND SPECIAL COURSES

- 2206.479 [34.479] FIELD RESEARCH IN PLANNING (1-3) Field research in contemporary planning problems. Research projects conducted under the supervision of the various state, local, and regional planning agencies. Open only to junior and senior geography majors. This course may be re-elected once for credit. Prerequisites: Consult the department chairman.
- 2206.481 [34.481] SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3) Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.483 [34.483] SEMINAR: THE AMERICAS (3) Individual study in selected problems of the geography of the Americas. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.485 [34.485] SEMINAR: SOUTH ASIA (3) Reading, research, and discussions on special topics related to India, Pakistan, Ceylon, the Himalayan Kingdoms, and Afghanistan. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.487 [34.487] SEMINAR: GEOGRAPHY AND MAN IN THE 20TH CENTURY (3) Selected studies on the role of geographic factors in economic and political affairs and in the development of technology. Analysis of contributions of applied geography to the solution of urban and rural problems. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.489 [34.489] SEMINAR: STUDIES IN ENVIRONMENTAL QUALITY (3) Studies of selected problems in the quality of man's physical and cultural environments. Readings, discussions, and research on geographical and other aspects of man's use of natural resources and major forms of environmental pollution. Prerequisite: 2206.101, 102 or consent of instructor.
- 2206.493 [34.493] FIELD GEOGRAPHY (2-6) Practical laboratory experience in techniques in the collection and analysis of data by observations, measurements, mapping, and photographic records. Such techniques are to be applied to selected geographic problems. Prerequisite: Six hours of Geography or consent of instructor.
- 2206.494 [34.494] TRAVEL AND STUDY (3-6) Countries and topics to be selected by departments and instructors sponsoring the program. For complete information write the chairman of the department early in the Fall of the academic year preceding the summer of intended study. Prerequisite: Consent of instructor.
- 2206.495 [34.495] DIRECTED READING IN GEOGRAPHY (3) Independent reading in selected areas of geography. Open by invitation of the geography department to students taking a major or minor in geography. Prerequisite: 15 hours of geography and a minimum average of 3.0 in geography courses.
- 2206.496 [34.496] INDEPENDENT STUDY IN GEOGRAPHY (1-6) Independent research, study, or field experience under supervision of a member of the Geography faculty. Designed for advanced students who wish to conduct independent investigations on aspects of Geography which

are of special interest or not covered in other courses. Registration arranged with department chairperson. Prerequisites: Advanced undergraduate standing with at least 18 hours in Geography or graduate standing.

2206.521 (34.521) **RESEARCH TECHNIQUES IN GEOGRAPHY** (3) A course designed to investigate the primary sources of information in geography and to learn the nature of original investigation. Prerequisite: Six hours of Geography or consent of instructor.

2206.571 (34.571) **STUDIES IN PHYSICAL GEOGRAPHY** (3) The study of selected geographical topics dealing with physical landscape phenomena, especially in regards to distribution, relationships, and significance to man. Topics will be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of Geography or consent of instructor.

2206.581 (34.581) **SEMINAR IN POLITICAL GEOGRAPHY** (2-6) Special subjects dealing with the geography of international politics, e.g. boundary problems, global strategy, space, sovereignty. Topics to be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of Geography or consent of instructor.

2206.583 (34.583) **SEMINAR: ENVIRONMENTAL PROBLEMS IN MARYLAND** (3) Individual research on a selected environment problem in Maryland; oral and written presentations. Prerequisites: Graduate status and either geography major, previous work in Maryland, previous seminar or consent of instructor.

2206.591 (34.591) **URBAN GEOGRAPHY STUDIES** (2-6) Selected topics dealing with the application of geography

to planning, retail and industrial location, and trade analysis. Topics to be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of Geography or consent of instructor.

2206.601 (34.601) **LAND USE STUDIES** (2-6) Certain selected problems on urban, rural and rural-urban landscapes which consider and account for geographic differences in land utilization. Topics will be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of Geography or consent of instructor.

2206.671 (34.671) **SEMINAR IN REGIONAL GEOGRAPHY** (2-6) The description, analysis and interpretation of natural and cultural phenomena in certain significant geographic regions. Seminar topics will be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of Geography or consent of instructor.

2206.697 (34.697) **RESEARCH** (2-6) Directed investigation of a pertinent and appropriate geographical problem or problems based upon field and library study, which will contribute to geographical knowledge. Designed for the individual research. Prerequisite: Six hours of Geography or consent of instructor.

2206.699 (34.699) **MASTERS THESIS IN GEOGRAPHY** (3-6) Designed for graduate majors electing Plan A. Will be taken with thesis advisor. Prerequisite: Graduate status.

Attention is also called to the following courses:

1901.121 (64.121) **GENERAL GEOLOGY** (Physical Sciences)

1901.222 (64.222) **GEOMORPHOLOGY** (Physical Sciences)





# Health Science

**Professor:** BRUESS (Choirperson)

**Associate Professors:** ENSOR, GALLAGHER, OSMAN, STINE, WARREN

**Assistant Professors:** CARLSEN, GAY, ROULHAC, SIEGARS

**Instructors:** AGLEY, EASTERBROOK, HOOPER, J. McMAHON, M. J. McMAHON

The health science courses are geared to bridge the gap between scientific health discoveries and the application of these to daily living, to develop people's potential to an optimal level, to aid in the selection of healthy behavior patterns for people and their environment, and to help people make the most of life. Students may select among programs in health (school or community), health record administration, medical technology, and occupational therapy. In addition a thematic option is available in health services management. For details of this program see the Arts & Sciences section of the catalog.

## Major in Health

The undergraduate major in health is specifically designed to allow the student to select one of three specializations — school health, community health, or school and community health. Depending upon the specialization selected, sufficient background will be acquired to deal with health in elementary and secondary schools or in community and public health agencies. The foundation for graduate education in school or public health is also provided for the health major student.

Since the size of the undergraduate Health Major Program has grown quite rapidly in the past few years, the following two policies have been put into effect by the Health Science Department:

1. A student must complete the following courses or the equivalent with a grade of "C" or better prior to declaring Health as a major:
  - a. Human Anatomy & Physiology 0401.113
  - b. General Biology 0401.101
  - c. Chemistry for Non-Scientists 1905.100  
OR  
General Chemistry 1905.101
  - d. Principles & Practices in Community Health 1201.202  
OR
  - e. General Psychology 2001.101
  - f. Introduction to Sociology 2208.101
  - g. One additional Health elective  
Student's Choice — 3 crs.
  - h. Physical Education elective
  - i. Current Health Problems 1201.101

All junior college transfer students will be required to have had the above courses with the exceptions of 1201.201 and 1201.202.

2. As the program has grown larger, it has also become increasingly difficult to place students in Student Teaching and/or Community Health Field Work. It may be possible that some students will experience a delay in being placed for Student Teaching and/or Community Health Field Work in future years. In the event that there are more students desiring placement than there are placement opportunities available, those with the highest grade point averages will be placed

first. Those who do not get placed will then receive top priority during the next placement period. At present, problems with placement are not evident, but problems in future years will depend upon the size of the program and available placements.

## THE HEALTH MAJOR

### Requirements

#### Bachelor's Degree: Health (School Health Specialization)

**Choirperson:** DR. CLINT E. BRUESS

In addition to the General College Requirements, the following courses are required of health majors with a school health specialization:

Health courses — total of 32 credits

Other required courses — total of 44 credits

Student Teaching — total of 14 credits

#### Health Courses

1201.101	Current Health Problems	(3)_____
1201.103	First Aid	(2)_____
1201.201	Health Education in the School I	(3)_____
1201.202	Principles and Practices in Community Health	(3)_____
1201.205	Health Education in the School II	(3)_____
1201.208	Mental Health	(3)_____
1201.401	Sex Education and Family Life	(3)_____
1201.402	Health Seminar	(3)_____
1201.405	Drugs in Our Culture	(3)_____
	Two Health elective courses	

#### Science Courses

0401.101	Contemporary General Biology	(4)_____
0401.113	Human Anatomy and Physiology	(4)_____
0401.114	Human Anatomy and Physiology	(4)_____
0401.315	Medical Microbiology	(4)_____
1905.100	Chemistry for Non-Scientists	(3)_____
	OR	
1905.101	General Chemistry	(4)_____

#### Other Required Courses

0803.398	Student Teaching	(14)_____
0803.401	Foundations of Education	(3)_____
0808.319	Survey of Education Programs	(3)_____
	OR	
0803.341	Principles of Secondary Education	(3)_____
0801.101	Careers in Education	(2)_____
0801.414	Elementary Tests and Measurements	(3)_____
2001.101	General Psychology	(3)_____
2001.203	Educational Psychology	(3)_____
2208.101	Introduction to Sociology	(3)_____
	Physical Education Electives (two semesters)	

#### Bachelor's Degree: Health (Community Health Specialization)

**Choirperson:** DR. CLINT E. BRUESS

In addition to the General College Requirements, the following courses are required of health majors with a community health specialization:

Health courses — total of 35 credits

Other required courses — 37 credits  
Community Health Field Work — total of 14 credits

### Health Courses

1201.101	Current Health Problems	(3) _____
1201.103	First Aid	(2) _____
1201.104	Parental and Child Health	(3) _____
1201.201	Health Education in the School I	(3) _____
1201.202	Principles and Practices in Community Health	(3) _____
1201.207	Health Care in the United States	(3) _____
1201.208	Mental Health	(3) _____
1201.302	Preparation for Community Health Field Work	(3) _____
1201.303	Community Health Field Work	(14) _____
1201.311	Chronic and Communicable Diseases	(3) _____
1201.451	Ecological Aspects of Health	(3) _____
	Two Health elective courses	

### Science Courses

4001.101	Contemporary General Biology	(4) _____
0401.113	Human Anatomy and Physiology	(4) _____
0401.114	Human Anatomy and Physiology	(4) _____
0401.315	Medical Microbiology	(4) _____
1905.100	Chemistry for Non-Scientists OR	(3) _____
1905.101	General Chemistry	(4) _____

### Other Required Courses

0506.101	Introduction to Business Management	(3) _____
2204.101	Economic Principles and Problems I	(3) _____
1701.237	Elementary Biostatistics	(4) _____
2001.101	General Psychology	(3) _____
2208.101	Introduction to Sociology	(3) _____
	Physical Education Electives (two semesters)	

It is strongly recommended that students electing the community health track also complete a minor in sociology, biology, psychology, or other appropriate related area.

### Bachelor's Degree: Health (School and Community Health Specialization)

Chairperson: DR. CLINT E. BRUESS

In addition to the General College Requirements, the following courses are required of health majors with a school and community health specialization:

Health courses — 32 credits

Other required courses — 42 credits

Student Teaching — 8 credits

Community Health Field Work — 8 credits

### Health Courses

1201.101	Current Health Problems	(3) _____
1201.103	First Aid	(2) _____
1201.201	Health Education in the School I	(3) _____
1201.202	Principles and Practices in Community Health	(3) _____
1201.205	Health Education in the School II	(3) _____
1201.208	Mental Health	(3) _____
1201.302	Preparation for Community Health Field Work	(3) _____
1201.303	Community Health Field Work	(8) _____
1201.401	Sex Education and Family Life	(3) _____
1201.402	Health Seminar	(3) _____
1201.405	Drugs in Our Culture	(3) _____
	One health elective course	

### Science Courses

0401.101	Contemporary General Biology	(4) _____
0401.113	Human Anatomy and Physiology	(4) _____
0401.114	Human Anatomy and Physiology	(4) _____
0401.315	Medical Microbiology	(4) _____
1905.100	Chemistry for Non-Scientists OR	(3) _____
1905.101	General Chemistry	(4) _____

### Other Required Courses

0803.398	Student Teaching	(8) _____
0803.401	Foundations of Education	(3) _____
0808.319	Survey of Education Programs OR	(3) _____
0803.341	Principles of Secondary Education	(3) _____
0801.101	Careers in Education	(2) _____
1701.237	Elementary Biostatistics	(4) _____
2001.101	General Psychology	(3) _____
2001.203	Educational Psychology	(3) _____
2208.101	Introduction to Sociology	(3) _____
	Physical Education Electives (two semesters)	

### Graduate Program in Health

A specialization in health education as part of a Master of Education program in Secondary Education as well as an M.S. Degree in Health Science are available. For further information consult the graduate studies catalog or Ms. Phyllis Ensor, graduate coordinator of the Health Science Department.

### HEALTH COURSES (1201)

#### Lower Division — Undergraduate

- 1201.101 (41.101) CURRENT HEALTH PROBLEMS (3) Health problems of current interest or importance on an individual, community, national, and international basis. Includes a general overview of the state of the nation's health.
- 1201.103 (41.103) FIRST AID (2) Designed for people who may be called upon to give first aid care in the course of their daily activities. Course content of the American Red Cross Standard First Aid and Personal Safety Course is included. The Red Cross Standard First Aid Certificate is awarded.
- 1201.104 (41.104) PARENTAL AND CHILD HEALTH (3) An introduction to parental and child health in its contemporary, social, cultural setting. Discussion will include parenthood, prenatal care, growth and development of the child, the school environment, physical handicaps, and public health programs serving the maternal, infant, and preschool populations. Prerequisite: 1201.101.
- 1201.107 (41.107) HEALTH PROFESSIONALS' ORIENTATION (3) Overview of basic principles of health care delivery, consumers, professions, and relationships.
- 1201.201 (41.201) HEALTH EDUCATION IN THE SCHOOL I (3) An introductory overview of the total school health program with emphasis on what health education is, what health services are available, and guidelines for teaching elementary and secondary school health education. Prerequisite: 1201.101.
- 1201.202 (41.202) PRINCIPLES AND PRACTICES IN COMMUNITY HEALTH (3) Principles and practices in the field of community health, and the organization and administration of various agencies. Major community health problems. Prerequisite: 1201.101.
- 1201.203 (41.203) FIRST AID INSTRUCTORS (2) American Red Cross First Aid Course for instructors certification. Prerequisite: 1201.103.

1201.204 (41.204) NUTRITION [2-3] A basic course covering the chemical nature and utilization of nutrients; the composition, digestion, absorption of foods; and the normal nutritional requirements of the human body, with attention to the relationship between nutrition and general health. Prerequisite: Chemistry 1905.101 or consent of instructor.

1201.205 (41.205) HEALTH EDUCATION IN THE SCHOOL II (3) An in-depth consideration of the total school health program with emphasis on interpretation of school health services, analysis of selected health education curriculum guides, development of teaching materials, and actual observation and participation in health education in elementary and secondary schools. Prerequisites: 1201.101, 1201.201, 1701.237.

1201.206 (41.206) HEALTH AND URBAN LIVING (3) Study of those conditions of urban living with particular relevance for the health and well-being of urban dwellers. Nature, extent, and programs and problems in dealing with atmospheric pollution, water supply, housing, sanitation, behavioral disorders, mental illness, communicable disease, etc. Prerequisite: Health 1201.101, Introduction to Sociology.

1201.207 (41.207) HEALTH CARE IN THE UNITED STATES (3) A survey-seminar course which analyzes the demand, cost, supply and providers of health care. The position and behavior of the health care recipient, analysis of different health care settings, and factors such as professionalism, the professional education system, authority structures, ethical responsibilities, referral, cost accountability and how they affect and define methods for delivery of health care services.

1201.208 (41.208) MENTAL HEALTH (3) A study of the positive aspects of mental health and interpersonal relationships. Emphasis is placed on self-actualization, the helping relationship, constructive confrontation, and mental health roles in school and community. Prerequisite: 1201.101.

1201.209 (41.209) CONSUMER BEHAVIOR (3) The course is designed to examine consumer behavior in light of psychological, sociological, and ecological principles. Taught on an interdepartmental basis with the Psychology Department. Prerequisite: 1201.101, 2001.101.

1201.221 (41.221) HUMAN SEXUALITY (3) An individually oriented discussion course designed to explore the multidisciplinary scope of human sexuality. An in-depth look at the physiological, psychological, emotional, cultural, and social aspects of human sexuality will focus on establishing one's sexuality as a healthy entity. Prerequisite: 1201.101.

1201.225 (41.225) WEIGHT CONTROL: THEORY AND PRACTICE (3) Designed for students interested in either the theoretical and/or the practical aspects of losing, gaining, or maintaining weight. Recent medical and behavioral literature will be reviewed. Opportunities will exist in class to make application of the theories. Prerequisite: 1201.101 or permission of instructor.

## Upper Division — Undergraduate

1201.302 (41.302) PREPARATIONS FOR FIELD WORK IN COMMUNITY HEALTH (3) Examination of techniques needed to work in various community health capacities; observation of community health situations. Prerequisites: 1201.202, 1701.237.

1201.303 (41.303) FIELD WORK IN COMMUNITY HEALTH (1-14) Practical experience in participation in community health education situations. Prerequisite: 1201.302.

1201.305 (41.305) COMMUNITY HEALTH ADMINISTRATION (3) A survey of current approaches to the theories, prac-

tices and organization of community health services administration. Prerequisites: Principles and Practices in Community Health (1201.202).

1201.311 (41.311) CHRONIC AND COMMUNICABLE DISEASE (3) A factual, non-clinical approach to the major chronic and communicable diseases that are health problems in the United States population today. Patient education methods and the role of the health educator in relation to these diseases will be stressed. Prerequisites: 1201.101, 0401.101 (0401.315 strongly recommended).

1201.321 (41.321) CRISIS INTERVENTION (3) Various crisis situations and approaches to intervention in handling these situations will be covered in the course. Examples of specific crisis concerns that will be dealt with are: Drugs, sex, death, suicide, handicaps, mental illness, diseases, and family and peer groups. Prerequisite: 1201.208 or consent of instructor.

## Upper Division — Undergraduate and Graduate

1201.401 (41.401) SEX EDUCATION AND FAMILY LIFE (3) Designed for the present and future teacher, the course includes an overview of human sexuality. Emphasis will be placed on the need for education about sexuality, theories of sexual education, selection of content, sequential unit planning, survey and availability of A-V materials and the qualifications of the effective sex educator. Prerequisites: 1201.221 or 1201.101, 2001.101, 0401.101.

1201.402 (41.402) HEALTH SEMINAR (3) Examination of recent trends in school and community health, reports of student projects, consultation with experts in health field. Prerequisite: Consent of department chairperson.

1201.403 (41.403) HEALTH EDUCATION CURRICULUM (3) Development of school health education programs based on health needs and problems of school children. Prerequisite: 1201.101, 1201.201.

1201.405 (41.405) DRUGS IN OUR CULTURE (3) An in-depth review of harmless, harmful, useful and useless substances which may affect behavior or mood; the interaction of psychological, sociological and physiological components included. Prerequisite: 1201.101.

1201.411 (41.411) HEALTH AND LATER MATURITY — THE AGING PROCESS (3) An approach to the conservation of human resources with emphasis on understanding attitudes and practices related to health in later maturity. Designed for students with a personal or professional interest in the field. Prerequisites: Six hours of health and/or behavioral science or consent of instructor.

1201.451 (41.451) ECOLOGICAL ASPECTS OF HEALTH (3) An examination of the interrelationship between man and his environment. Emphasis is placed upon health aspects of pollution, housing, sanitation, radiation, behavioral disorders and epidemiology. Prerequisites: 1201.101, 2208.101.

1201.485 (41.485) HEALTH WORKSHOP (3 or 6) For teachers, administrators, and individuals concerned about health related fields. Contemporary health aspects are considered with emphasis on implementation of positive behavior aimed at improving the health of the individual and the community. Enrollment is limited to 25. Prerequisite: Consent of department chairperson. Students who elect this course for six credits will participate in two workshops.

1201.491 (41.491) HEALTH DIRECTED READINGS (1-3) Independent reading in health or related disciplines. Prerequisite: A minimum of 10 credits in health and consent of department chairperson.

1201.495 (41.495) INDEPENDENT STUDY (3) Directed study on specific problems in health and related fields. Prerequisite:

site: Consent of department chairperson and 12 hours in health.

## Graduate Division

1201.501 (41.501) PROBLEMS IN SCHOOL HEALTH (3) Designed to assist the student in developing an understanding of current problems in school health programs. The structure, organization, scope, content and practices in the field as revealed through literature and research is studied. Prerequisite: Consent of department chairperson.

1201.511 (41.511) CURRENT LITERATURE IN HEALTH (3) Critical analysis of current and past research findings concerning health knowledge, attitudes, behavior, and educational techniques. A comprehensive review of health-related periodicals is included. Prerequisite: Undergraduate major in health, consent of instructor, or 15 semester hours of health.

1201.513 (41.513) ANALYSIS OF PHYSIOLOGICAL CONCEPTS (3) Analysis of research and laboratory applications of the physiological factors that affect human efficiency before, during, and after exercise. Factors to be investigated include: metabolism, circulation-respiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc. Prerequisite: Consent of department chairperson.

1201.525 (41.525) RESEARCH METHODS IN HEALTH (3) An introduction to research and statistical designs as directly related to Health Science and Allied Health disciplines. Evaluation and redesign of current health research designs will be emphasized. Prerequisites: 1701.231 or 0801.414 and graduate standing or consent of instructor.

1201.570-579 (41.570-579) SPECIAL TOPICS (3) The course is designed to focus on several currently important health topics. Possible suggestions include: fitness in a hypokinetic world, aging, death, alcohol and its abuse, consumerism, disease, weight control, value clarification, developing a personal philosophy of health. Prerequisite: 6 hours in health or permission of department chairperson.

1201.591 (41.591) DIRECTED READINGS IN HEALTH (3) Individual study of a significant problem in health through consultation with appropriate faculty members. Emphasis is on increased knowledge of health. Prerequisite: Undergraduate major in health, consent of instructor, or 15 semester hours of health.

## MAJOR IN HEALTH RECORD ADMINISTRATION

Director: DR. NEIL E. GALLAGHER

Total required credits for graduation — 120 credits of "C" work or better.

Grade Point Average required for graduation — 2.00.

Health record administration is an exciting and integral part of the health care delivery system. This baccalaureate program is designed to prepare students as Health Record Administrators who can function as members of the health team in hospitals, clinics, medical research programs, health agencies and other health related businesses that require medical information storage and retrieval. Towson State College is affiliated with the U.S.P.H.S. Hospital. The Program at the Hospital is directed by Ms. Beverly Gardner, R.R.A. and Ms. Lynn Loring, R.R.A. (Deputy Director).

The Towson State College's Health Record Administration program is designed to fulfill general college requirements and provide students with an opportunity for

course work in: medical terminology, medical records science, statistics, data processing administration, and anatomy and physiology. Students are required to complete 120 credit hours of which 78 credit hours are required and 42 are elective courses. The baccalaureate degree in Health Record Administration will be granted after successful completion of these requirements which includes a senior year internship at the U.S. Public Health Hospital. Transfer students must complete a minimum of 30 credit hours at Towson State before the internship. During the fourth semester native Towson State students and students from other institutions must take the A.H.P.A.T. in order to be eligible for screening. Due to a limited number of internship positions, students will be screened into this program at the end of the sophomore year.

Before beginning the internship at the U.S. Public Health Service Hospital a student must have at least a 2.0 cumulative average in all Health, Business, and Computer Science courses. They must also be officially accepted by the screening committee of the hospital. The internship is an eleven (11) month program in which 34 credit hours of the 120 will be completed at the hospital.

In addition to the General College Requirements the following courses are required for a major in Health Record Administration:

Business Administration courses — total of 9 credits

Science courses — total of 16 credits

Math courses — total of 13 credits

Other required courses — total of 9 credits

Internship — total of 34 credits

## Curriculum Requirements

1501.102	English	(3)_____
1701.111 or	Mathematics	(3)_____
1701.115 or		
1701.119		
0401.101	Biology	(4)_____
1201.101	Current Health Problems	(3)_____
0506.101	Introduction to Business Management	(3)_____
1701.237	Elementary Biostatistics	(4)_____
0701.211	Introduction to Data Processing	(3)_____
0701.235	Fund of Computing	(3)_____
0401.113	Anatomy & Physiology	(4)_____
0506.381	Personnel Management	(4)_____
2208.391	Research Methods	(3)_____
0401.114	Anatomy & Physiology	(4)_____
0506.461	Administrative Analysis	(3)_____
	Natural Science Elective	(4)_____

## Internship — Senior Year

Medical Terminology	(3)_____
Medical Record Science I	(5)_____
Clinical Medicine and Surgery I	(3)_____
Organization of Health Care Facilities and the Community	(2)_____
Seminar in Health Records	(1)_____
Directed Experience	(4)_____
Legal Concepts for the Health Field	(2)_____
Medical Record Science II	(5)_____
Clinical Medicine and Surgery	(3)_____
Classification and Information Systems	(1)_____
Seminar in Health Records	(1)_____
Directed Practice	(4)_____

Suggested Health Record Curriculum

FRESHMAN YEAR		
First Semester		
1501.102	English	3
0401.101	Biology	4
2001.101	Psychology	4
2208.101	Sociology	3
	Group I Elective (Art)	3
		16
Second Semester		
1506.131	Speech	3
1701.111 or 1701.115 or 1701.119	Mathematics	3
	Group III Elective	3
	Group IV Elective	1
1201.101	Current Health Problems	3
0506.101	Introduction to Business Management	3
		16

SOPHOMORE YEAR		
First Semester		
	Group III Elective	3
1701.237	Elementary Biostatistics	4
	English Elective	3
0701.211	Introduction to Data Processing Electives	3
		16
Second Semester		
	English Elective	3
0701.235	Fund of Computing	3
	Group I Elective	3
	Elective (Natural Science)	4
		13

JUNIOR YEAR		
First Semester		
0401.113	Anatomy & Physiology	4
0506.381	Personnel Management	3
2208.391	Research Methods	3
	Electives	3
		13
Second Semester		
0401.114	Anatomy & Physiology	4
0506.461	Administrative Analysis	3
	Electives	6
		13

SENIOR YEAR		
1298.401 MEDICAL TERMINOLOGY (3) A study of the language of medicine, including word construction, definitions, and use of terms related to all areas of medical science, hospital service, and the allied health specialties. Prerequisite: 0401.113-114 and consent of chairperson.		
1298.402 LEGAL CONCEPTS FOR THE HEALTH FIELD (2) A study of the principles of law as applied to the health field, with particular reference to all phases of medical record practice. Prerequisite: 1298.403 and consent of chairperson.		
1298.403 MEDICAL RECORD SCIENCE I (5) An introduction to the field of medical record science, including an orientation to medical care institutions, the history of medical records, professional ethics, and the functions of a medical records department. Prerequisites: 1201-101, 2208.391, 1701.231 and consent of chairperson.		
1298.404 MEDICAL RECORD SCIENCE II (5) An in-depth study of the medical record, its components, development and use; coding and indexing of medical information; preservation of records; and research techniques. This course will survey health record systems for other depart-		

ments of the hospital and for other health care facilities. Lectures are supplemented with laboratory experience. Prerequisite: 1298.403 and consent of chairperson.

1298.405 CLINICAL MEDICINE AND SURGERY I (3) An introduction to medical science, including the study of the nature and causes of disease, and the treatment of patients. Prerequisite: 0401.113-114 and consent of chairperson.	
1298.406 CLINICAL MEDICINE AND SURGERY II (3) An in-depth analysis of the nature and causes of diseases and various treatment modalities. Prerequisite: 1298.405 and consent of chairperson.	
1298.407 ORGANIZATION OF HEALTH CARE FACILITIES AND THE COMMUNITY (2) A study of the functions of modern health care facilities, the types of health care facilities, the various types of ownership and control, the standards and the relationships to the community. Prerequisites: 1201.101, 0506.101 and consent of chairperson.	
1298.408 CLASSIFICATION AND INFORMATION SYSTEMS (1) Comparison and discussion of classification systems, indexes and registers with emphasis on planning, implementation, and evaluation of systems, and the relationship of these systems to medical care evaluation by the medical staff and research activities. Prerequisites: 0701.211, 0701.235 and consent of chairperson.	
1298.409 SEMINAR IN HEALTH RECORDS I (1) The presentation and discussion of selected case problems in health record administration, with emphasis on applying principles of organization and administration. Prerequisites: 0506.101, 0506.381 and consent of chairperson.	
1298.410 SEMINAR IN HEALTH RECORDS II (1) The presentation and discussion of selected case problems in health record administration, with emphasis on applying principles of organization and administration. Prerequisites: 1298.409 and consent of chairperson.	
1298.411 PRACTICUM IN HEALTH RECORDS ADMINISTRATION I (4) Supervised experience in medical record departments of hospitals in the area through which the student develops insight, understanding and skill in medical record procedures. Prerequisites: 1501.102, 0506.461, 2208.391 and consent of chairperson.	
1298.412 PRACTICUM IN HEALTH RECORDS ADMINISTRATION II (4) A continuation of 1298.411. During this advanced phase the student will have one intensive experience on a full-time basis of not less than three weeks. Prerequisite: 1298.411 and consent of chairperson.	
1298.495 INDEPENDENT STUDY IN HEALTH RECORD ADMINISTRATION (1-3) Directed study on specific topics or field experience on specific topics of health record administration programs. Prerequisite: Consent of instructor.	
1298.491 HEALTH RECORD ADMINISTRATION DIRECTED READING (1-3) Independent readings and research of health record administration programs. Prerequisite: Consent of instructor.	

MAJOR IN GENERAL STUDIES (Health Services Management Theme)

Director: DR. NEIL E. GALLAGHER

The Health Services Management program is designed to help prepare students for management careers as administrative assistants, nursing home administrators, health planners, hospital or health care administrators, or varieties of middle management personnel such as department heads or supervisors. Depending upon student interests and availability of positions graduate training in

health administration may be desirable after completing this program.

In addition to the General College Requirements, the following courses are required for a theme in health services management.

Health courses — total of 12 credits

Business Administration courses — total of 12 credits

Other required courses — 19 credits

### Health Science

1201.202 Principles & Practices in Community Health

1201.207 Health Care in the United States

1201.311 Chronic & Communicable Disease  
Upper division health elective

### Business Administration

0506.325 Business Law

0506.331 Financial Management

0506.381 Personnel Management

Upper division Business Administration elective

### Other required related courses

2204.201 Economics of Health

0701.235 Fundamentals of Computing

2208.496 Research Methods

2207.375 Public Administration

1501.333 Writing for Business and Industry  
Laboratory Science elective

In order to complete the required courses within the thematic option, it will be necessary for students in this program to complete the following prerequisites:

1201.101 Current Health Problems

0506.201 Accounting Principles

2204.101-102 Economic Principles & Problems

2208.101 Introduction to Sociology

2207.103 Introduction to American National Government

1701.237 Elementary Biostatistics

Twenty-one additional credits of upper division electives should be completed under advisement.

## MAJOR IN MEDICAL TECHNOLOGY

Director: DR. NEIL E. GALLAGHER

The four year program is designed to prepare allied health personnel for specialized work in hospital and medical laboratories and leads to the Bachelor of Science Degree in Medical Technology. It provides sufficient background for the student to pass the Registry Examination which is administered by the Board of Registry of the American Society of Clinical Pathologists.

### Section 01 (Union Memorial Hospital)

Director: DEZSO K. MERENYI, M.D.

Educational Coordinator: ROBERT E. DURELL, MT (ASCP)

Pathologist: RICHARD R. GRAHAM, M.D.

Pathologist: DAVID A. DOBROW, M.D.

Biochemist: RUDOLPH KODRAS, Ph.D., D.V.M.

### Section 02 (St. Joseph Hospital)

Director: LAWRENCE F. MISANIK, M.D.

Educational Coordinator: DENNIS GUIFFORD, MT (ASCP)

Clinical Chemist: THOMAS R. KOCH, Ph.D.

Pathologist: REYNALDO ORJUELA-GOMEZ, M.D.

Pathologist: SAMUEL C. H. LEE, M.D.

In addition to the General College Requirements, the following courses are required for a major in medical technology.

Biology courses — total of 20 credits

Chemistry courses — total of 21 credits

Other required courses — total of 14 credits

Hospital internship — total of 32 credits

### Curriculum Requirements

0401.101 Contemporary General Biology (4) \_\_\_\_\_

0401.113 Human Anatomy & Physiology I (4) \_\_\_\_\_

0401.114 Human Anatomy & Physiology II (4) \_\_\_\_\_

0401.315 Medical Microbiology (4) \_\_\_\_\_

Elect four additional hours of Biology (4) \_\_\_\_\_

1905.101 General Chemistry I (4) \_\_\_\_\_

1905.102 General Chemistry II (4) \_\_\_\_\_

1905.210 Principles & Mechanisms of  
Chemical Analysis (4) \_\_\_\_\_

1905.230 Essentials of Organic Chemistry (5) \_\_\_\_\_

Elect four additional hours of Chemistry (4) \_\_\_\_\_

1201.101 Current Health Problems (3) \_\_\_\_\_

1701.115 Mathematics I (3) \_\_\_\_\_

1902.211 General Physics I (4) \_\_\_\_\_

1701.237 Elementary Biostatistics (4) \_\_\_\_\_

### Strongly Recommended courses

0401.401 Genetics (4) \_\_\_\_\_

0401.421 Immunology (4) \_\_\_\_\_

1905.351 Biochemistry (3) \_\_\_\_\_

### Recommended courses

1201.204 Nutrition (3) \_\_\_\_\_

0401.221 Introduction to Animal Parasitology (4) \_\_\_\_\_

1201.311 Chronic and Communicable Disease (3) \_\_\_\_\_

Students will be screened by the Medical Technology Screening Committee during their sophomore year. Those interested should apply to Dr. Gallagher. Those accepted by the committee will complete the following courses during their senior year.

1223.401-402 Blood Bank (1.5, 1.5) \_\_\_\_\_

1223.403-404 Clinical Biochemistry (4, 4) \_\_\_\_\_

1223.405-406 Hematology (4, 4) \_\_\_\_\_

1223.407-408 Clinical Pathology (1, 1) \_\_\_\_\_

1223.409-410 Diagnostic Microbiology (2.5, 2.5) \_\_\_\_\_

1223.411-412 Human Parasitology (1, 1) \_\_\_\_\_

1223.413-414 Serology (1, 1) \_\_\_\_\_

1223.415-416 Urinalysis (1, 1) \_\_\_\_\_

Though the Bachelor of Arts degree is normally earned when a student adds a foreign language to the degree requirements, the Medical Technology Director recommends that all majors indicate that they want a Bachelor of Science degree when they apply for graduation.

### Medical Technology Screening Procedures

Students' interest and enthusiasm in the Medical Technology Program has exceeded the available clinical experience placements. This shortage has necessitated the implementation of the following screening procedures:

In order to be considered for tentative acceptance a student must have completed eight semester hours of Biology, eight semester hours of Chemistry, and a total of 45 semester hours. By the end of their third semester students must have declared their interest in majoring in Medical Technology. This necessitates students applying for consideration to the Director of Medical Technology Program no later than January 15.

The Director of the Medical Technology Program will review each application according to the following criteria:

- a. Total academic record-overall grade point averages for students screened will be placed in a rank order. Grades in science courses will also be considered separately.
- b. General progress towards a baccalaureate degree (this includes general education courses and other courses specifically related to Medical Technology). After three semesters of full-time work or the equivalent, a student should have completed 50% of the general education requirements. After four semesters of full-time work or the equivalent a student should have completed 70% of the general education requirements. Extenuating circumstances affecting general progress towards a degree will be considered. These might include personal health problems, a need to work many hours while attempting college, or other personal situations.
- c. A personal interview will be used by the Director where appropriate. It is felt that the above criteria will be sufficient to break the students into three general classifications. One classification would be those who clearly fail to meet the criteria; a second classification would be those who meet the criteria very well; a third classification would be those whose status is questionable based upon the criteria. The students in the third group are those who will be interviewed if necessary to fill the quota.

Presently, the availability of senior year clinical experience is limited. Judging by the present hospital facilities, 14 students could be tentatively accepted following this screening. This acceptance is tentative since appropriate academic progress is required and final acceptance to the senior year clinical experience is dependent on approval by the respective hospital screening committee. All students will be ranked according to their G.P.A. Those students falling below the 14 student cut-off point will be placed on a waiting list. Should any of the 14 accepted students fail to indicate their intention of continuing in Medical Technology by March 1, their position will be taken by students on the waiting list.

To allow for a margin of error and also to attempt to pick up students who may have missed the previous screening date for various reasons, applications will again be accepted until July 1 of the calendar year. In order to be considered at that time, a student should have completed 20 hours of science and 60 total semester hours. The other criteria used would be the same as listed above. Following the July 1 screening, six additional students would be admitted to the program. This would result in a total of 20 students in Medical Technology during their Junior year. Students accepted at this time must indicate their intention to continue in Medical Technology by August 1. A waiting list will again be established on a rank order basis after the July 1 screening. Each calendar year will result in the establishment of a new waiting list. In this way it is possible for a student to apply for acceptance to the Medical Technology Program as many times as desired.

Towson State students and transfer students will be considered on an equal basis for screening purposes.

### Additional Medical Technology Policies

Students who anticipate applying for acceptance to St. Joseph's Hospital are reminded that they will be charged an additional student Lab Fee of one hundred dollars for the 76-77 academic year.

Important dates for student screening:

- a. During third semester of study file screening application with Director by January 15.
- b. Tentatively accepted students indicate intention to continue by March 1.
- c. Application for second screening due at Director's office by July 1.
- d. Application for internship by accepted candidates submitted by January 1 of the year prior to the internship.

Ninety credit hours are to be completed during the first three years at Towson State College or other accredited colleges. Thirty of these credit hours must be completed at Towson State College. During the fourth year, thirty-two credit hours are to be completed at Union Memorial Hospital, St. Joseph's Hospital, or other appropriate hospitals determined by Towson State College. Before beginning the fourth year at the affiliated hospital, students must attain at least a 2.0 cumulative average, a minimum grade of C in all Biology and Chemistry courses, and be accepted by the respective hospital screening committee.

During the fourth year, the twelve month course of study in the hospital includes:

## MEDICAL TECHNOLOGY COURSES (1223)

### Upper Division — Undergraduate Only

- 1223.401-402 (51.401-402) BLOOD BANK (1.5, 1.5) Methods used in collecting blood and procedures required in preparing blood for blood bank.
- 1223.403-404 (51.403-404) CLINICAL BIOCHEMISTRY (4, 4) Biochemical tests used in all medical diagnosis.
- 1223.405-406 (51.405-406) HEMATOLOGY (4, 4) Blood cell morphology and various tests to determine their presence.
- 1223.407-408 (51.407-408) CLINICAL PATHOLOGY (1, 1) Discussions of theoretical and practical aspects of analysis of special body fluids with emphasis on clinical pathological correlations.
- 1223.409-410 (51.409-410) DIAGNOSTIC MICROBIOLOGY (2.5, 2.5) Stain preparations and chemical tests used in identifying bacteria and in diagnosing diseases caused by them.
- 1223.411-412 (51.411-412) HUMAN PARASITOLOGY (1, 1) Microscopic identifications of all disease producing organisms other than those caused by bacteria.
- 1223.413-414 (51.413-414) SEROLOGY (1, 1) Identifications of the types of serous fluids and interpretations of tests showing these types.
- 1223.415-416 (51.415-416) (1, 1) Microscopic observations and chemical tests necessary to identify materials present in urine.

## MAJOR IN OCCUPATIONAL THERAPY

Director: MRS. DIANE STINE

Occupational therapy is the art and science of directing man's participation in selected tasks to restore, reinforce and enhance performance, facilitate learning of those skills and functions essential for adaptation and productivity, diminish or correct pathology, and promote and maintain health. Occupational therapists direct the use of self-care, work, homemaking, play and leisure activities. They use these activities to assist individuals or groups whose health is threatened or impaired by developmental

deficits, aging, poverty and environment conditions, physical injury or illness, and psychological and social disability.

## Occupational Therapy Major Policies and Procedures

The four year program is designed to provide a liberal education and develop professional competence. It leads to the Bachelor of Science in Occupational Therapy and is planned to prepare graduates to pass the certification exam to become a registered occupational therapist.

1. Students interested in becoming occupational therapy majors are required to first gain admission to Towson State College. Admission to the College does not guarantee admission to the occupational therapy major. Occupational therapy faculty will advise potential students about the nature of the profession, the national certification examination and the occupational therapy curriculum prior to this admission at the request of the student. This prior contact is highly recommended particularly since admission to the major is competitive and the number of occupational therapy slots is limited.
2. After admission to the College, the student is required to visit the Occupational Therapy Office for a personal interview if this has not been undertaken previously.
3. The student is required to visit one or more occupational therapy services before placing his/her name on the Pre-Occupational Therapy Major Candidates List.
4. The student must declare his/her interest by placing his/her name on the Pre-Occupational Therapy Major Candidates List. The above requirements (1, 2, 3) must be completed before this step.
5. Freshmen and upperclass Towson State College students shall be admitted to the Pre-Occupational Therapy Major Candidates List on a first come basis for the following fall.
6. Transfer students from other colleges shall be admitted on a first come basis until April 15 for the following fall.
7. Thirty freshmen and/or Towson State College upperclassmen and twelve transfer students from other colleges shall be admitted to the Pre-Occupational Therapy Candidates List. A waiting list is kept between April 15 and the first week of fall semester to assure a freshman class of 42.
8. If a student chooses to withdraw from the Pre-Occupational Therapy Major Candidates List, he/she shall be required to submit his/her intention in writing to the Occupational Therapy Program Director.
9. The sequence of courses starts only in the fall, and full-time study is required.
10. Thirty students shall be accepted into the Occupational Therapy Program at the end of each freshman year. A waiting list (11) of qualified students will be kept until the "last day of add classes" for fall semester as stated in the Towson State College Bulletin.
11. The screening process requires the use of grade point average for prerequisite courses, a personal interview, a written statement of interest and two personal references.
12. Prerequisites to be completed during freshman year before screening must include: Biology 0401.101, Psychology 2001.101, Sociology 2299.101, English 1501.102, Mental Hygiene 2001.230, Overview of Occu-

pational Therapy Philosophy & Services 1208.112, Bio-Psycho-Social Development 1208.116.

13. Students must maintain a grade point average of 2.0 or better in each occupational therapy course as well as attain the cumulative grade point average required by the College. Any D grade in a major course will not count for major credit; a student receiving a D grade must retake the course and bring the grade up to a C.
14. In order to graduate students must have documentation of completing standard course in First Aid.

In addition to the General College Requirements, the following courses are required of occupational therapy majors:

Occupational Therapy courses — total of 42 credits  
Other required courses — total of 17 credits  
Clinical internships — total of 22 credits

## Occupational Therapy Curriculum

### FIRST YEAR

#### First Semester

0401.101	Contemporary General Biology	4
2001.101	General Psychology	3
2208.101	Introduction to Sociology	3
1501.102	English Composition	3
*1201.107	Health Professionals Orientation*	3
		16

#### Second Semester

1208.112	Overview of Occupational Therapy: Philosophy & Services	1
1208.116	Bio-Psycho-Social Development	3
2001.230	Mental Hygiene (Prereq. 2001.101)	3
*2202.207	Cultural Anthropology	3
2001.350	Personality	3
	English Requirement	3
	Physical Education	1
		17

### SECOND YEAR

#### Third Semester

0401.113	Anatomy and Physiology I	4
1208.211	Occupation as a Health Determinant (Prereq. 1208.112)	3
1208.213	Small Group Dynamics (Prereq. 1201.101, 2299.101)	3
1208.217	Task Analysis & Occupational Performance (Prereq. 1208.116)	4
1201.207	Health Care in the U.S.	3
		17

#### Fourth Semester

0401.114	Anatomy & Physiology II	4
1208.218	Task Analysis and Occupational Performance (Prereq. 1208.217)	4
1208.229	Occupational Therapy Practicum I (Prereq. 1208.211, 0401.113)	4
0835.200	Kinesiology	3
		15

### THIRD YEAR

#### Fifth Semester

1208.311	Analysis of Human Motion (Prereq. 0401.113-114)	3
1208.313	Human Development through Occupation I (Prereq. 1208.229)	4
1208.315	Causes of Performance Dysfunction (Prereq. 0401.113-114, 2001.230)	3
1208.319	Clinical Application I (Prereq. 1208.217-218)	2
1509.203	Logic	3
	Group III	3
		18



Sixth Semester

1208.314	Human Development through Occupation II (Prereq. 1208.313)	4
1208.316	Causes of Performance Dysfunction (Prereq. 1208.315)	3
	Group III	3
1208.320	Clinical Application II (Prereq. 1208.319)	2
1701.237	Bio-Statistics	4
		16

FOURTH YEAR

Seventh Semester

1208.428	OT Organization, Administration & Teaching (Prereq. 1208.415-416)	3
1208.429	Synthesis of Occupational Therapy (Prereq. 1208.415-416)	2
1208.430	Exploration in Dynamics of Occupation (Prereq. 1208.415-416)	2
	Group I Electives	9
		16

Eighth Semester

1208.415	OT Internship I	7
1207.416	OT Internship II	7
		14

\* highly recommended courses

OCCUPATIONAL THERAPY COURSES (1208)

Lower Division — Undergraduate

- 1208.112 (63.112) OVERVIEW OF OCCUPATIONAL THERAPY: PHILOSOPHY AND SERVICES (1) An introduction to the philosophy of occupational therapy and a study of its practice, covering identification of clients, settings for practice, personnel, and historical factors. Spring & Fall.
- 1208.116 (63.116) BIO-PSYCHO-SOCIAL DEVELOPMENT (3) A survey of the normal development process in human beings covering the entire life cycle, and including discussion of deviations from the normal. Stresses the development of work/play behavior; theoretical material and research findings are presented. Prerequisites: 0401.101, 2001.101, 2208.101. Spring.
- 1208.211 (63.211) OCCUPATION AS A HEALTH DETERMINANT (3) Delineation and study of the relation of occupation to health, concentrating on a variety of types of occupation, including play, self-care, education, employment, recreation, leisure, and homemaking, and illustrating the effects of health and ill health on occupational behavior. Prerequisites: 1208.112. Fall.
- 1208.213 (63.213) SMALL GROUP DYNAMICS (3) A study of small groups used in therapeutic or health education setting. Lectures will examine group members and leaders' roles, stages of a group's life, theory of developmental groups, and the structure and function of a variety of small groups used in therapy, education, and community settings. Participatory experiences will supplement lectures to promote personal communication and effectiveness in groups. Prerequisite: 2208.101, 2001.101.
- 1208.217-218 (63.217-218) TASK ANALYSIS AND OCCUPATIONAL PERFORMANCE (4, 4) An introduction to the gathering of occupational history data, analyses of tasks and skills, development of occupational performance skills in areas pertinent to students' needs and interests, and adaptation of equipment for special requirements. Integrates knowledge and skills for occupational therapy services which foster health development, prevent health problems, maintain optimal function, and develop occupational performance skills. Prerequisites: 1208.116, 1208.211 (may be concurrent). 1208.217 — Fall. 1208.218 — Spring.

- 1208.229 (63.229) INTRODUCTION TO FIELD EXPERIENCE (4) Equivalent of four to five weeks supervised field experience in occupational therapy programs designed to foster healthy development, prevent health problems, maintain optimal function, and develop occupational performance skills. Prerequisites: 1208.211, 1208.217, 0401.113 Spring.

Upper Division — Undergraduate and Graduate

- 1208.311 (63.311) ANALYSIS OF HUMAN MOTION (3) Presentation of the anatomy and physiology of the musculoskeletal system and of related neuroanatomical, neurophysiological, and kinesiology concepts. Human motion seen as integrated actions and related to the integration of body systems. Prerequisites: 0401.113, 0401.114. Fall.
- 1208.313-314 (63.313-314) HUMAN DEVELOPMENT THROUGH OCCUPATION I AND II (4, 4) Principles of the application of occupational therapy to meet the needs of clients. Covers measurement and evaluation, remediation, precautions, and community resources. Laboratory experiences will be used to develop skills in selected areas. Prerequisites: 1208.229, 1208.311 (can be concurrent). 1208.313 — Fall. 1208.314 — Spring.
- 1208.315-316 (63.315-316) CAUSES OF PERFORMANCE DYSFUNCTION (3, 3) The etiology, patho-physiology, performance effects, remedial approaches, objectives of occupational therapy, precautions, and prognosis of a series of major disabilities amenable to occupational therapy. The disabilities discussed include emotional, neurological, orthopedic and general medical conditions. Prerequisites: 0401.113, 0401.114, 2001.230, 1208.229. 1208.315 — Fall. 1208.316 — Spring.
- 1208.318 (63.318) INDEPENDENT STUDY (3-6) Directed independent study designed to provide students with an in depth investigation of an area or problem specific to occupational therapy. Consultation and supervision with designated faculty members and/or clinical practitioners. Prerequisites: Undergraduate major in occupational therapy and consent of instructor.
- 208.319-320 (63.319-320) CLINICAL APPLICATION I AND II (2, 2) Application of knowledges regarding clinical disorders and evaluation/treatment procedures in an occupational therapy practice setting under the supervision of a qualified registered occupational therapist. Prerequisites: 1208.217-218, 0401.113-114, to be taken concurrent with 1208.313-314. 1208.319 — Fall. 1208.320 — Spring.
- 1208.415-416 (63.415-416) OCCUPATIONAL THERAPY INTERNSHIP I AND II (7, 7) Three to four months each full time supervised field experience with the opportunity to provide occupational therapy services to clients of both sexes, and varying ages. These field education courses must include a variety of learning experiences in perceptual-cognitive-motor development and physical and psychological function. They also include institutional and community delivery systems. Prerequisites: 1208.313-314. 1208.415 — 1208.416, Spring.
- 1208.418 (63.418) ADVANCED SPECIALTY INTERNSHIP (3) An optional field education experience of two to three months designed to meet special needs or interests. May include such areas of practice as mental retardation, cerebral palsy, sensory impairments, child psychiatry, adolescent psychiatry, special education, pediatrics, geriatrics, public health, drug abuse or penology. Prerequisites: 1208.313-314.
- 1208.428 (63.428) OCCUPATIONAL THERAPY ORGANIZATION, ADMINISTRATION AND TEACHING (3) Administrative and organizational theory applied to occupational therapy service programs. Content includes personnel relationships and supervision, systems analysis, program

planning, budgeting, space and facilities planning, communication systems, and programs for staff and student development. Prerequisite: 1208.415. Fall.

1208.429 (63.429) SYNTHESIS OF OCCUPATIONAL THERAPY THEORY AND PRACTICE (2) Seminar designed to analyze problems encountered in educational and field situations and to focus on and analyze a variety of new occupational therapy topics related to the dynamics of occupation, occupational therapy practices, and theory

testing. Presentation of introductory materials on research methods and reporting of results. Prerequisite: 1208.415. Fall.

1208.430 (63.430) EXPLORATION IN THE DYNAMICS OF OCCUPATION (2) Guided, independent research in topics related to the dynamics of occupation, occupational therapy practices, and theory testing. Presentation of introductory materials on research methods and reporting of results. Prerequisite: 1208.415. Fall.



# History

**Professors:** ANDREWS, BLUMBERG, BOLES, J. COX, ESSLINGER FALCO, KAHL (*Chairperson*), KERR, LAREW, MATTHEWS, MRUCK, ONION, RIVERS, RYON, WHITMAN

**Associate Professors:** HIRSCHMANN, JOCHENS, D. MARTIN, McWILLIAMS, PIOTROWSKI, F. SANDERS, SCARPACI, SCHOLNICK, VAN OSDELL

**Assistant Professors:** ELDRIDGE, NZEADIBE, SLADEK

The Department offers a major to encourage the student to explore in some depth the study of history. Such investigation, performed well, leads to an appreciation of the structure and function of the discipline, prepares the student for graduate work, and offers excellent background for many careers, particularly teaching and certain types of government service. The student is expected to take correlative courses which broaden his/her academic background and offer valuable insights into his/her major subject. The Department of History also strongly recommends the completion of two years of a foreign language.

The Department offers an honors program in history. Eligibility requirements and rules governing the college honors program are described elsewhere in this Bulletin. Students interested in the history honors program should consult their advisers and the Chairperson of the Department.

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that these are in addition to the General College Requirements.

## BACHELORS DEGREE . . . HISTORY

### Requirements

General — total — none

Major — total — 36

2205.145	History of the United States to the Mid-Nineteenth Century	(3) _____
2205.146	History of the United States Since the Mid-Nineteenth Century	(3) _____
2205.241	History of European Civilization Through the Seventeenth Century	(3) _____
2205.242	History of European Civilization From the Seventeenth Century	(3) _____
2205.290	Introduction to Historical Study	(3) _____

One of the following:

Any 3 hour course in African history	(3) _____
Any 3 hour course in Asian history	(3) _____
Any 3 hour course in Latin American history	(3) _____

18 hours of electives offered by the department, at least 12 of which must be in courses at the 300-400 level:

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

### Requirements

General — total — none

Minor — total — 24

2205.290	Introduction to Historical Study	(3) _____
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One of the following:

2205.109	Introduction to the Civilization of India	(3) _____
2205.111	Traditional East Asia: China, Japan and Korea until 1700	(3) _____
2205.112	Modern East Asia: China, Japan and Korea Since 1700	(3) _____
2205.121	Latin America: Colonial Period	(3) _____
2205.122	Latin America: National Period	(3) _____
2205.133	The African World to the Fifteenth Century	(3) _____
2205.134	The African World Since the Fifteenth Century	(3) _____
2205.281	Introduction to Islamic History	(3) _____

Nine additional hours from courses offered by the department at the 100-200 level:

_____	(3) _____
_____	(3) _____
_____	(3) _____

Nine hours of electives offered by the department at the 300-400 level:

_____	(3) _____
_____	(3) _____
_____	(3) _____

### Transfer Credit Policy of the Department

No more than 18 credit hours in history will be accepted toward a major or a minor from a regionally accredited four year college. No more than 12 lower division credit hours in history will be accepted toward a major or a minor from a regionally accredited two year college. The 12 credit hours must be in lower division courses which have Towson equivalents at the 100-200 level.

### Special Recommendations for Majors and Minors

Students must declare their majors and minors in the History Department office. They will select an academic adviser who will help in preparing a program of courses. The major or minor should be declared during the second semester of the freshman year or at the beginning of the sophomore year. Majors and minors in history who are in the secondary education program are strongly urged to meet state certification requirements in Social Science. In addition to the history courses, certification requires six hours of economics, three hours of geography, three hours of political science, and three hours of sociology. Majors and minors who wish to student teach must have completed 15-18 hours of the required courses in history.

### HISTORY COURSES (2205)

Lower Division — Undergraduate

2205.101 (40.101)	INTRODUCTION TO ANCIENT CIVILIZATION (3)	Political, social, economic, and intellectual forces which shaped the pattern of Near Eastern and European life from the Stone Ages through the decline of
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- the Roman Empire. (Formerly 40.262 History of Western Civilization I).
- 2205.109 (40.109) INTRODUCTION TO THE CIVILIZATION OF INDIA (3) Development of the culture of South Asia from earliest times and the emergence of the present nations of Bangladesh, Pakistan, India, and Sri Lanka (Ceylon).
- 2205.111 (40.111) TRADITIONAL EAST ASIA: CHINA, JAPAN AND KOREA UNTIL 1700 (3) An introductory survey of the historical development of the civilizations of China, Japan and Korea through the seventeenth century with special emphasis on cultural and institutional patterns. (Formerly 40.110 Introduction to East Asian Civilization: China and Japan).
- 2205.112 (40.112) MODERN EAST ASIA: CHINA, JAPAN AND KOREA SINCE 1700 (3) An introductory survey of the historical development of China, Japan and Korea in the last centuries, focusing on their respective reactions to the Western World and on the patterns of nationalism, revolution, war and regeneration in these countries. (Formerly 40.110 Introduction to East Asian Civilization: China and Japan).
- 2205.121 (40.121) LATIN AMERICA: COLONIAL PERIOD (3) The political, economic, and social developments in Portuguese and Spanish America from the pre-Columbian period to the movements for independence.
- 2205.122 (40.122) LATIN AMERICA: NATIONAL PERIOD (3) The struggle for political, economic, and social stability, international relations and cultural patterns in the development of independent Latin America in the nineteenth and twentieth centuries.
- 2205.133 (40.133) THE AFRICAN WORLD TO THE FIFTEENTH CENTURY (3) A multi-disciplinary approach to the study of African people from about 4500 B.C. to the fifteenth century.
- 2205.134 (40.134) THE AFRICAN WORLD SINCE THE FIFTEENTH CENTURY (3) A multi-disciplinary approach to the study of African people south of the Sahara from the fifteenth century to the present.
- 2205.145 (40.145) HISTORY OF THE UNITED STATES TO THE MID-NINETEENTH CENTURY (3) Political, economic, social, and cultural forces which shaped the pattern of life in the United States from the founding of the colonies to 1865.
- 2205.146 (40.146) HISTORY OF THE UNITED STATES SINCE THE MID-NINETEENTH CENTURY (3) Continuation of 2205.145 from 1865 to the present.
- 2205.201 (40.201) SURVEY OF ENGLISH HISTORY TO 1783 (3) Evolution of the political, legal, social, economic, and cultural institutions of England and the spread of the Empire overseas. The triumph of Parliament over the monarchy and the development of individual rights of Englishmen.
- 2205.202 (40.202) BRITISH HISTORY SINCE 1783 (3) Struggle against France, the Industrial Revolution, and the rise of the bourgeoisie to political control. The spread of the empire, the symbolism of the Victorian era, and the evolution of democratic processes.
- 2205.241 (40.241) HISTORY OF EUROPEAN CIVILIZATION THROUGH THE SEVENTEENTH CENTURY (3) Political, social, economic, and intellectual forces which shaped the pattern of European life from post-Roman times through the seventeenth century. (Formerly 40.263 History of Western Civilization II)
- 2205.242 (40.242) HISTORY OF EUROPEAN CIVILIZATION FROM THE SEVENTEENTH CENTURY (3) Political, social, economic, and intellectual forces which shaped the pattern of European life from the seventeenth century to the present. (Formerly 40.264 History of Western Civilization III)
- 2205.277 (40.277) A SURVEY OF JEWISH HISTORY (3) Political, cultural, and socio-economic experience of world Jewry from the Diaspora to the present. Emphasis on the nineteenth and twentieth centuries.
- 2205.281 (40.281) INTRODUCTION TO ISLAMIC HISTORY (3) A survey of the history and culture of the Islamic peoples from Muhammed to the present. Emphasis on the Arabic nations.
- 2205.290 (40.290) INTRODUCTION TO HISTORICAL STUDY (3) Survey of historical writings, the theory of history, introduction to research.

## Upper Division — Undergraduate and Graduate

- 2205.301 (40.301) ANCIENT NEAR EASTERN CIVILIZATIONS (3) The civilizations of Mesopotamia and Egypt and the peripheral developments in Syria-Palestine and Asia Minor. Prerequisite: 2205.101 or consent of the instructor.
- 2205.302 (40.302) CLASSICAL CIVILIZATIONS (3) The civilizations of Greece and Republican Rome with emphasis on their comparative developments to 30 B.C. Prerequisite: 2205.101 or consent of the instructor.
- 2205.303 (40.303) HELLENISTIC CIVILIZATION (3) The civilization that arose in the Mediterranean Basin after the conquests of Alexander and the Roman Empire within this context. Prerequisite: 2205.101 or consent of the instructor.
- 2205.311 (40.311) TRADITIONAL INDIA: ITS HISTORICAL DEVELOPMENT (3) Development of the history and culture of India from prehistoric times until the beginnings of European dominance in the eighteenth century. Prerequisite: Six hours of history or consent of instructor.
- 2205.312 (40.312) HISTORY OF MODERN INDIA (3) The history of the Indian subcontinent since 1750 stressing the rise of British power, the colonial experience, the development of nationalist movements, and the problems of independence in present-day India, Pakistan, and Bangladesh. Prerequisite: Six hours of history or consent of instructor.
- 2205.313 (40.313) HISTORY OF MODERN SOUTHEAST ASIA (3) The development of Burma, Thailand, Malaysia, Indonesia, Cambodia, Vietnam, and the Philippines since 1500, with emphasis on the colonial experience and development of modern nationhood. Prerequisite: Six hours of history or consent of the instructor.
- 2205.316 (40.316) HISTORY OF MODERN CHINA (3) China from the beginnings of the Western penetration through the Nationalist and Communist revolutions of the twentieth century. Prerequisites: Six hours of history to include either 2205.111 or 2205.112 or consent of the instructor.
- 2205.317 (40.317) HISTORY OF MODERN JAPAN (3) The political, economic, and cultural aspects of Japan's rapid modernization from the mid-nineteenth century and her subsequent expansion, defeat, and recovery. Prerequisites: Six hours of history to include either 2205.111 or 2205.112 or consent of the instructor.
- 2205.321 (40.321) HISTORY OF MEXICO: PRE-COLUMBIAN AND COLONIAL (3) The political, economic, social, and cultural developments from early Pre-Columbian civilizations to the movement for independence. Prerequisite: Six hours of lower division history.
- 2205.322 (40.322) HISTORY OF MEXICO: NATIONAL PERIOD (3) The political, economic, social, and cultural develop-

- ments from independence to the present. Prerequisite: Six hours of lower division history.
- 2205.325 (40.325) HISTORY OF INDIANS IN LATIN AMERICA: MAYA, AZTEC AND INCA (3) An ethno-historical examination of the social, economic and political aspects of some of the major indigenous civilizations of Latin America prior to the arrival of the first Europeans, with special attention to Maya, Aztec and Inca civilizations. Prerequisites: Three hours of history or anthropology or consent of the instructor.
- 2205.334 (40.334) HISTORY OF WEST AFRICA: 1500-1885 (3) The cultural, social, economic, and political institutions of the West African people from 1500 to 1885 with emphasis on the contributions made to African history by the Ashanti, the Old Oyo, the Dahomey, and the Bini. Prerequisite: 2205.133 or 2205.134 or 2202.207 or consent of the instructor.
- 2205.335 (40.335) HISTOR OF RECENT AFRICA (3) The political, economic, cultural, and intellectual forces which shaped the lives of the African people since World War II. Prerequisite: 2205.133 or 2205.134 or 2205.242.
- 2205.345 (40.345) THE AMERICAN COLONIES: 1492-1763 (3) Founding and the political, economic, and social development of the American colonies. Prerequisite: 2205.145 or 2205.241 or consent of the instructor.
- 2205.346 (40.346) THE AMERICAN REVOLUTIONARY PERIOD: 1763-1789 (3) From the end of the Seven Years' War to the ratification of the Constitution. Prerequisite: 2205.145 or 2205.241 or consent of the instructor.
- 2205.347 (40.347) THE EARLY NATIONAL PERIOD (3) The United States from the Constitutional Convention to the Election of 1820. The Federalist Decade and the Jeffersonian Era. Prerequisite: 2205.145.
- 2205.348 (40.348) THE JACKSONIAN ERA (3) The United States from 1815 to 1845; political, social, and economic currents of the period. Prerequisite: 2205.145.
- 2205.349 (40.349) THE CIVIL WAR (3) Sectionalism, the coming of the war, and the war years. Emphasis on political, economic, and social issues. Prerequisite: 2205.145.
- 2205.350 (40.350) THE ERA OF RECONSTRUCTION (3) Political, economic, and social study of the Reconstruction era, the war years to 1877, and its aftermath. Prerequisite: 2205.145.
- 2205.351 (40.351) THE GILDED AGE (3) History of the United States from 1877 to 1892 with emphasis on the political, economic, and social questions of the era. Prerequisite: 2205.145 or 2205.146.
- 2205.352 (40.352) THE POPULIST-PROGRESSIVE ERA (3) History of the United States from 1892 to 1920 with emphasis on the political, economic, and social questions of the era. Prerequisite: 2205.145 or 2205.146.
- 2205.359 (40.359) RECENT AMERICAN HISTORY: 1920-1945 (3) History of the United States from the 1920's through World War II, with emphasis on the presidential years of Franklin D. Roosevelt. Prerequisite: 2205.146.
- 2205.360 (40.360) RECENT AMERICAN HISTORY: 1945-1975 (3) History of the United States from World War II through the mid 1970's, including political, social, economic, and diplomatic developments. Prerequisite: 2205.146.
- 2205.361 (40.361) AMERICAN INTELLECTUAL HISTORY TO 1859 (3) Main issues in American thought from the colonial period to the publication of Darwin's *The Origin of Species*. Emphasis on religious thought, political theory, and ideas in literature. Prerequisite: 2205.145 or 1501.211.
- 2205.362 (40.362) AMERICAN INTELLECTUAL HISTORY SINCE 1859 (3) Main issues in American thought from the publication of Darwin's *The Origin of Species* to contemporary times. Emphasis on religious thought, social theory, ideas in literature and philosophy. Prerequisite: 2205.146 or 1501.212.
- 2205.363 (40.363) SOCIAL HISTORY OF THE UNITED STATES TO 1865 (3) History of American life from the seventeenth century to the Civil War, focusing on problems relating to social structure, popular culture, family, religious, and educational institutions. Prerequisite: 2205.145.
- 2205.364 (40.364) SOCIAL HISTORY OF THE UNITED STATES SINCE 1865 (3) History of American life from the Civil War to the present, focusing on problems relating to social structure, popular culture, family, religious, and educational institutions. Prerequisite: 2205.146.
- 2205.365 (40.365) THE AGRICULTURAL ERA OF AMERICA (3) A study of the development of agriculture and the commercial, financial, and manufacturing institutions in America from colonial times to the Civil War. Prerequisite: 2205.145.
- 2205.366 (40.366) A HISTORY OF AMERICAN BUSINESS (3) A study of industry, finance, commerce and agriculture from the Civil War to the present. Prerequisites: Three hours of history and either consent of the instructor or junior standing. [Also carries Business Administration major credit.]
- 2205.367 (40.367) CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1868 (3) Development of American constitutionalism in theory and practice to 1868. Prerequisite: 2205.145.
- 2205.368 (40.368) CONSTITUTIONAL HISTORY OF THE UNITED STATES SINCE 1868 (3) Continuation of 2205.367 since 1868. Prerequisite: 2205.146.
- 2205.369 (40.369) DIPLOMATIC HISTORY OF THE UNITED STATES TO 1900 (3) Evolution of the American national interest in foreign relations with Europe, Latin America, and the Far East from colonial times to 1900. Emphasis upon the changing character and role of objectives, policies, commitments, and forces. Prerequisite: 2205.145 or 2205.146.
- 2205.370 (40.370) DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1900 (3) Continuation of 2205.369 to the present with added interest in the emergence of the United States as a major world power. The role of the United States in modern warfare, world wide economic and financial affairs, overseas expansion, the diplomatic impact of conflict in ideologies, and current international crisis. Prerequisite: 2205.145 or 2205.146.
- 2205.371 (40.371) RELIGION IN EARLY AMERICA (3) The impact of religion upon American history and culture. Topics include Puritanism, the Great Awakening, American Revolution, separation of church and state, revivalism, and religious reform. Prerequisite: 2205.145.
- 2205.372 (40.372) RELIGION IN MODERN AMERICA (3) The growth of the various religious groups—Protestants, Catholics, and Jews—that dominate the United States today. Topics include the Black Church, religion and the Civil War, religion and the city, fundamentalism, Niebuhr, and civil religion. Prerequisite: 2205.146.
- 2205.373 (40.373) THE COLONIAL AND TRANS-APPALACHIAN FRONTIER (3) The westward movement and the effect of the frontier process on social, economic, and political institutions of the United States and the attitudes of the American people to 1850. Prerequisite: 2205.145.

- 2205.374 (40.374) THE FAR WESTERN FRONTIER (3) The expansion into the Trans-Mississippi West and the impact of the frontier process on the attitudes of the American people and on the social, economic, and political institutions of the United States in the nineteenth and twentieth centuries. Prerequisite: 2205.146.
- 2205.375 (40.375) THE CITY IN AMERICAN HISTORY (3) The development of the city and its impact on American social, cultural, intellectual, political, and economic life. Prerequisites: 2205.145, 2205.146 or two of the following: 2206.391, 2208.327, 2207.305 or consent of the instructor.
- 2205.377 (40.377) THE IMMIGRANT IN AMERICAN HISTORY (3) The history of the immigrant experience in America from the colonial period to the present. Emphasis on migration patterns, receptivity of native society, assimilation and acculturation processes. Prerequisites: 2205.145 and 2205.146.
- 2205.379 (40.379) INDIAN-WHITE RELATIONS IN AMERICAN HISTORY (3) The interplay of societal attitudes, cultural beliefs, and official government policy and their impact on the Indian population of North America, from 1492 to the present. Prerequisite: Three hours of American history.
- 2205.381 (40.381) HISTORY OF AFRO-AMERICANS (3) History of Americans of African ancestry from their West African background to the present. Emphasis on black Americans' thought, activities, organizations, and their role in developing America. Prerequisites: 2205.145 and 2205.146.
- 2205.383 (40.383) AMERICAN RADICALISM SINCE 1890 (3) Leadership, organization, and theories of those who sought fundamental economic change in the United States; emphasis on anarchism, communism, and socialism. Prerequisites: Six hours of history or consent of the instructor.
- 2205.391 (40.391) HISTORY OF CANADA (3) Canadian history with emphasis on the period since 1867. Particular attention will be given to the problems of cultural dualism and confederation. Prerequisite: 2205.145 or 2205.146 or 2205.242 or 2207.101.
- 2205.397 (40.397) HISTORY OF MARYLAND FROM COLONIAL TIMES TO THE PRESENT (3) Major events and forces that have shaped the political, social, cultural, and economic development of Maryland. Prerequisite: Three hours of United States history.
- 2205.400 (40.400) SEMINAR IN AMERICAN HISTORY (3) Reading and research dealing with a phase of history to be selected by the instructor; considerable attention to sources and historiography. Prerequisites: Consent of the instructor and fifteen hours of history including 2205.290.
- 2205.401 (40.401) THE EARLY MIDDLE AGES: 300-1050 (3) The rebuilding of Europe after the collapse of the Roman Empire. Emphasis on the Church Fathers, the Germanic tribes, Carolingian culture, Feudalism and the Vikings. Prerequisite: 2205.241.
- 2205.402 (40.402) THE HIGH MIDDLE AGES: 1050-1350 (3) The flowering of medieval culture. Emphasis on the role of the church, the emergence of the national monarchies of western Europe, and the creation of towns and universities. Prerequisite: 2205.241.
- 2205.403 (40.403) THE RENAISSANCE ERA: 1300-1530 (3) Political, economic, social, and cultural changes in late medieval and Renaissance Europe. Prerequisite: 2205.241 or consent of the instructor.
- 2205.404 (40.404) THE REFORMATION: 1500-1648 (3) Religious, political, economic, and social changes in Reformation and Counter-Reformation Europe. Prerequisite: 2205.241 or consent of the instructor.
- 2205.405 (40.405) EUROPE: 1648-1815 (3) European state system and expansion of European civilization; intellectual growth and class relationships culminating in the French Revolution and Napoleon. Prerequisite: 2205.242.
- 2205.406 (40.406) EUROPE: 1815-1914 (3) Major economic, political, social, and intellectual currents of the period. The effects of the industrial revolution, the development of nationalism and imperialism, and the origins of World War I. Prerequisite: 2205.242.
- 2205.407 (40.407) EUROPE: 1914-1939 (3) Events leading to World War I, the conflict, and the peace which followed. The rise of conflicting political ideologies and the road to World War II. Prerequisites: 2205.241 and 2205.242.
- 2205.408 (40.408) EUROPE SINCE 1939 (3) World War II—diplomacy, strategy, and results. The economic, social, and political recovery of post-war Europe and the development of new alliance structures. Prerequisites: 2205.241 and 2205.242.
- 2205.410 (40.410) EUROPEAN SOCIAL HISTORY SINCE THE EIGHTEENTH CENTURY (3) Dynamics of change in an industrializing society with class structure as the framework for understanding the transformation of organizations and institutions in which individuals experienced relationships and through which they expressed values. Prerequisites: 2205.242 or six hours of upper division sociology.
- 2205.413 (40.413) EUROPEAN MILITARY HISTORY SINCE 1815 (3) Wars, inter-war military developments, and civil-military relations seen in the context of European diplomacy and socio-economic history since Napoleon. Emphasis on the two world wars. Prerequisite: 2205.242 or consent of the instructor.
- 2205.415 (40.415) DIPLOMATIC HISTORY OF EUROPE: 1815-1939 (3) A study in depth of specific diplomatic crises, with emphasis upon the impact of each upon the European Balance of Power. Prerequisite: 2205.242.
- 2205.417 (40.417) ECONOMIC HISTORY OF EUROPE TO THE MID-EIGHTEENTH CENTURY (3) A study of European economy to the middle of the eighteenth century. Particular attention will be given to the development of commerce, capitalism, manufacture, and mercantilism. Prerequisite: 2205.241.
- 2205.418 (40.418) ECONOMIC HISTORY OF EUROPE SINCE THE MID-EIGHTEENTH CENTURY (3) The industrialization of Great Britain, France, Germany, Russia, and peripheral nations from the middle of the eighteenth century. Prerequisite: 2205.242.
- 2205.419 (40.419) EUROPEAN INTELLECTUAL HISTORY TO 1789 (3) Religious, scientific, political, and social theories seen in their historical context from the early Middle Ages to 1789; emphasis on the seventeenth and eighteenth centuries. Prerequisite: 2205.241 or 2205.242 or consent of the instructor.
- 2205.420 (40.420) EUROPEAN IDEAS: FRENCH REVOLUTION TO THE PRESENT (3) Religious, scientific, political, and social theories of the European intellectual class seen in their historical context from the French Revolution to the present. Prerequisite: 2205.242 or consent of the instructor.
- 2205.421 (40.421) BRITAIN IN THE TWENTIETH CENTURY (3) The role of Britain, the Commonwealth, and the Empire, Social reform and World War I, efforts to recover economic equilibrium, World War II, decline of the Empire and Socialism. Prerequisite: 2205.241 and 2205.242.
- 2205.431 (40.431) FRANCE: 1763-1871 (3) Old Regime and the impact of successive revolutions upon French society.

Emphasis upon the role of France in the growth of European liberalism and nationalism. Prerequisite: 2205.242.

2205.441 [40.441] GERMANY: 1871-1945 (3) Brief topical analysis of the nineteenth century background. Concentration on the Bismarckian Empire, Weimar Republic, and the Third Reich, emphasizing the interrelationships between internal developments and Germany's role in Europe and the world. Prerequisite: 2205.242.

2205.451 [40.451] RUSSIA: 1696-1894 (3) Political history and theory, social relations, economic, cultural and literary development, and growth of the Russian states from Peter the Great until Nicholas II. Prerequisite: 2205.242

2205.452 [40.452] RUSSIA/SOVIET UNION: 1894-1953 (3) Political, ideological, economic, and cultural factors influencing the fall of the monarchy, the Bolshevik Revolution, Leninism, and Stalinism. Prerequisite: 2205.242 or consent of the instructor.

2205.453 [40.453] HISTORY OF SOVIET RUSSIA SINCE STALIN, 1953 TO PRESENT (3) Topical analysis of political history and theory, economic development, foreign affairs, social changes, and cultural and literary trends. Prerequisites: 2205.242 or 2204.331 or 2207.338 or 2207.339 or 2207.432 or 2206.453.

2205.461 [40.461] SEMINAR IN EUROPEAN HISTORY (3) Reading and research dealing with a phase of history to be selected by the instructor; considerable attention to sources and historiography. Prerequisites: Consent of the instructor and fifteen hours of history including 2205.290.

2205.477 [40.477] EUROPE IN THE THIRD WORLD: COLONIALISM TO CRISIS (3) The impact of modern European Colonialism on the societies of the Third World, chiefly Africa and Asia. Primary emphasis on the period after 1914. Prerequisites: Six hours of Modern European, African, Asian, or Latin American history.

2205.479 [40.479] A HISTORY OF DIPLOMACY (3) Evolution from its origins to the present with emphasis on the modern period. Historic changes which shifting ideologies and new technologies have wrought in the role of the diplomat. Prerequisites: 2205.241 and 2205.242.

2205.481 [40.481] HISTORY OF MANAGEMENT (3) The theory, organization, and operation of selected political, religious, military, economic, and social institutions of the western world. Prerequisites: Three hours of history and either consent of the instructor or Junior standing. (Also carries Business Administration major credit.)

2205.483 [40.483] DIRECTED INDIVIDUAL RESEARCH (2-4) Research and reading dealing with a historical topic to be selected by the instructor and student; considerable attention to methodology. Prerequisites: Fifteen hours of history and a minimum average of 3.0 in history and consent of the instructor and the Department Chairperson.

2205.489 [40.489] ORAL HISTORY (3) Lectures, demonstrations, and extensive fieldwork in the techniques and methods essential to collecting tape recorded reminiscences of historical value. Topic to be selected by the instructor. Extra work will be required of graduate students and the course may not be taken more than one time. Prerequisites: Consent of the instructor and six hours of history appropriate to the topic.

2205.490 [40.490] INTERPRETIVE PROBLEMS IN HISTORY (3) An in-depth study of historical interpretations of selected topics. Prerequisites: Twelve hours of history appropriate to topic.

2205.491 [40.491] BIOGRAPHICAL STUDIES IN HISTORY (3) A study of selected historical figures who have shaped or reflected the past. Figures to be selected by the instructor.

Prerequisites: Six hours of history appropriate to topic.

2205.492 [40.492] HISTORICAL THEMES (3) A study through lectures and discussions of a historical topic selected by the instructor. Prerequisites: Six hours of history appropriate to topic.

2205.493 [40.493] PRACTICUM (2-6) Experience designed to combine the research and content of history with work in historical libraries, museums, archival depositories, and similar agencies. No more than six hours to be earned with any one agency. Prerequisites: Twenty-seven hours of history courses and consent of the Department Chairperson.

2205.494 [40.494] TRAVEL AND STUDY (3-6) Countries and topics to be selected by the Departments and instructors sponsoring the program. For complete information, write the Chairperson of the Department early in the fall of the academic year preceding the semester of intended study. Prerequisites: Upper division status and consent of the instructor.

2205.495 [40.495] SEMINAR IN COMPARATIVE STUDIES (3) Reading and research in history or related disciplines approached from a viewpoint that is primarily historical and dealing with specific topics, problems, or developments selected by the instructor(s). Prerequisites: Consent of the instructor and fifteen hours of history including 2205.290, or six hours of history and a research methods course and six additional hours of the related discipline.

2205.496 [40.496] COLLOQUIUM (3) Group discussion of reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with broad periods, topics, problems or comparative developments selected by the instructor(s). Prerequisites: Consent of the instructor and fifteen hours of history or nine hours of history and six hours of the related discipline.

2205.497 [40.497] DIRECTED READING (2-4) Independent reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with specific periods, topics, problems or comparative developments selected by the student in consultation with the instructor(s). Prerequisites: Fifteen hours of history or nine hours of history and six hours of the related discipline and a minimum average of 3.0 in history and the related discipline and consent of the Department Chairperson.

2205.498 [40.498] PHILOSOPHY OF HISTORY (3) The philosophical foundations of historical knowledge; free will versus determinism; development from ancient times to the present of different philosophical interpretations of history. Prerequisites: Twelve hours of history or six hours of history and six hours of philosophy.

2205.499 [40.499] SENIOR THESIS (2-4) Research and the writing of a thesis, to be directed by a faculty member in a chosen area of specialization. Prerequisite: Admission to Departmental Honors Program.

## Graduate Division

2205.599 [40.599] SEMINAR IN UNITED STATES HISTORY TO 1865 (3) Research dealing with a phase of United States history to 1865 to be selected by the instructor. Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.

2205.600 [40.600] SEMINAR IN UNITED STATES HISTORY SINCE 1865 (3) Research dealing with a phase of United States history since 1865 to be selected by the instructor.

Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.

2205.661 (40.661) SEMINAR IN NINETEENTH CENTURY EUROPEAN HISTORY (3) Research dealing with a phase of nineteenth century European history to be selected by the instructor. Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.

2205.662 (40.662) SEMINAR IN TWENTIETH CENTURY EUROPEAN HISTORY (3) Research dealing with a phase of twentieth century European history to be selected by the instructor. Prerequisites: Graduate standing, eighteen

hours of history and consent of the instructor and the Department Chairperson.

2205.683 (40.683) DIRECTED INDIVIDUAL RESEARCH (2-4) Research and reading dealing with a historical topic to be selected by the instructor and student, considerable attention to methodology. Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.

2205.697 (40.697) DIRECTED READING IN HISTORY (2-4) Independent reading in areas of history selected by the instructor and the student. Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.





# Instructional Technology

Professor: LOGAN

Associate Professors: WEST, LOOMIS, ROSECRANS  
(Chairperson)

Assistant Professors: BURTON, ORWIG, ROTH

Instructors: BARNES, DIETZ

Assistant Instructor: JOHN SHOWMAN

The Department of Instructional Technology (DIT) offers a comprehensive graduate program which prepares professionals for careers in the instructional media field. Track I is intended for the person who wishes to emphasize a specialty such as instructional television, photography and graphics, or audiovisual communications. Track II is intended for the person who plans to direct a MEDIA Center operation. Persons holding this degree are eligible for certification by the Maryland State Department of Education as an Educational Media Generalist (Level II).

## INSTRUCTIONAL TECHNOLOGY COURSES (0601)

### Upper Division — Undergraduate Only

0601.269 (13.269) LABORATORY IN INSTRUCTIONAL HARDWARE (1 or 2) The course will emphasize the development of skills required in the operation of selected instructional hardware. a. Required of all Secondary Education majors during student teaching; 0601.301 (see Undergraduate and Graduate) may also be used to fulfill this requirement. b. Not open to students who have completed ISTC 0601.301 or 0601.415 (no longer offered).

0601.302 (13.302) DESIGN AND PRODUCTION OF INSTRUCTIONAL MATERIALS (3) Students are required to design and produce selected instructional materials. Prerequisite: PSYC 2001.201 or consent of Chairperson. Lab fee \$10.00.

0601.304 (13.304) THE PRODUCTION OF INSTRUCTIONAL PRESENTATIONS (3) Emphasis is placed on both the basic knowledge and skills necessary to produce instructional presentations in four major formats: audio tape, video format, synchronized slide-tape program, and super 8mm film properly sequenced. Student acquires experience in producing each of the four types of productions as well as developing instructional guides accompanying each. Prerequisites: 0601.301 or 0601.302 or consent of Chairperson. Lab fee \$10.00.

0601.311 (13.311) MEDIA CENTER ADMINISTRATION (3) An examination of the organization and administration of media centers for service to students and faculty in school settings such as self-contained classrooms, open-space schools, and in independent study situations. Specific topics studied include planning and equipping media centers, routines, budgets, personnel, and criteria for evaluating school media services. Prerequisite: 0601.301 or consent of Chairperson.

0601.313 (13.313) EVALUATION AND SELECTION OF MEDIA (3) A study of evaluating techniques of print and non-print media. Prerequisite: 0601.301 or consent of Chairperson.

0601.475 (13.475) METHODS FOR MEDIA PERSONNEL IN THE ELEMENTARY SCHOOL (2) The evaluation of the school library media center's function and services in curriculum work with teachers and students. Methods of preparing and utilizing the media program. (To be taken concurrently with 0601.397 Practicum: The Media Center

in the Elementary School). Prerequisite: Admission by consent of the Department Chairperson.

0601.477 (13.477) METHODS FOR MEDIA PERSONNEL IN THE SECONDARY SCHOOL (2) The evaluation of the school library media center's function and services in curriculum work with teachers and students. Methods of preparing and utilizing the media program. (To be taken concurrently with 0601.398 Practicum: The Media Center in the Secondary School). Prerequisite: Admission by consent of the Department Chairperson.

0601.397 (29.397) PRACTICUM: THE MEDIA CENTER IN THE ELEMENTARY SCHOOL (6) Supervised media center practice in an elementary or middle school. Intended to be taken in one-half of a semester concurrently with 0601.475 Methods for Media Personnel in the Elementary School. Prerequisite: Admission by consent of Department Chairperson.

0601.398 (29.398) PRACTICUM: THE MEDIA CENTER IN THE SECONDARY SCHOOL (6) Supervised media center practice in a secondary school. Intended to be taken in one-half of a semester concurrently with 0601.477. Methods for Media Personnel in the Secondary School. Prerequisite: Admission by consent of Department Chairperson.

### Upper Division — Undergraduate and Graduate

0601.301 (13.301) UTILIZATION OF INSTRUCTIONAL MEDIA (2 or 3) Materials, devices, techniques and settings are presented in an overview of the field of instructional technology. Laboratory experiences are provided in the operation of instructional hardware. Must be taken for two hours credit if student has taken 0601.269. Prerequisite: Must have junior standing or consent of Chairperson.

0601.401 (13.401) HISTORY OF INSTRUCTIONAL TECHNOLOGY (3) An examination of the development of instructional technology. Particular emphasis is placed on the developing role of instructional technology and its historical antecedents. Prerequisite: 0601.301 or consent of Chairperson.

0601.423 (13.423) INSTRUCTIONAL MOTION PICTURE FILM-MAKING I (3) This course provides an introduction to the production of motion picture films designed for instructional use. Included in the course are basic filmmaking techniques, scripting, editing, and a survey of motion filming equipment. Lab fee \$15.00. Prerequisite: 0601.485.

0601.431 (13.431) SURVEY OF LEARNING BY TELEVISION (3) History, status, and goals of television used for learning. Topics include: television systems (cable, satellite, etc.), programming sources, legal ramifications, instructional television, sources of funds, comparative costs, special projects, current research and sources of data. Students will be required to demonstrate competencies in the operation of some portable television equipment. Prerequisite: 0601.485.

0601.435 (13.435) INSTRUCTIONAL TELEVISION UTILIZATION (3) A course combining televised lessons, on-campus seminars, and related workbook assignments. (This three credit upper division undergraduate and graduate level course focuses upon planning for the uses of instructional television with students). State, local school unit, school, and classroom uses will be illustrated through film and studio production. In addition, the production elements for ITV programming are developed through the television lessons and "hands-on" assign-

ments in the seminars. The course does not carry Master's Degree credit. Credit cannot be earned for this course and 0601.431. Prerequisite: Student teaching or practicum experience and junior standing.

0601.441 (13.441) COMPUTER TECHNOLOGY AND UTILIZATION (3) Exploratory course concerned with the rationale for and use of computers in learning and related administrative matters. Techniques are examined for the organization, storage, processing, and retrieval of data. Applications include the computer for instruction, the management of instruction, simulation, generation of graphics, and accounting for software and hardware. Key-punching, flow charting, and time sharing computer experiences are provided. Field trips to on and off campus computer installations are taken. (Note: The course will not prepare students for occupations in computer science). Prerequisite: 0601.301 or consent of Chairperson.

0601.453 (13.453) INTRODUCTION TO INSTRUCTIONAL PHOTOGRAPHY (3) This course presents basic planning and darkroom methods for preparing photographic materials. Although the thrust of the course is the black and white mode, color slides and other special topics are treated. Principles of visual literacy are stressed. Students are required to demonstrate competencies in darkroom utilization and print critiquing as well as print production. Lab fee \$15.00. Prerequisite: 0601.485.

0601.455 (13.455) GRAPHIC COMMUNICATIONS (3) Students learn the design and production of teacher-made instructional materials and are required to demonstrate their competency in the competency in the production of selected materials. Lab fee \$15.00. Prerequisite: 0601.301. (0601.455 may be taken concurrently with 0601.301.)

0601.471 (13.471) REFERENCE AND INFORMATION SOURCES (3) The bibliographic method, fundamental reference sources, and searching techniques for print and non-print materials are examined. Students are required to demonstrate competencies in the use of reference sources. Prerequisite: 0601.301 or consent of Chairperson.

0601.473 (13.473) CATALOGING AND CLASSIFICATION OF MEDIA (3) Cataloging, subject analysis, classification and bibliographic control. The use of commercial processing services and central processing in the school system. The concept of a unified catalog and materials center for print and non-print materials is stressed. Prerequisite: 0601.301 or consent of Chairperson.

0601.485 (13.485) MEDIA DESIGN (3) Components of effective instruction are presented and automation and information retrieval systems are explored before students are required to design, produce, and evaluate a unit of instruction. Lab fee \$15.00. Prerequisite: 0601.455.

0601.487 (13.487) THEORY AND TECHNIQUES OF PROGRAMMED INSTRUCTION (3) Both linear and intrinsic or branching programming are examined. Commercial and teacher-made programs are evaluated. Students are required to demonstrate competencies in the design and production of instructional programs. Prerequisite: 0601.301 or consent of Chairperson.

## Graduate Division

0601.501 (13.501) ORGANIZATION AND ADMINISTRATION OF MEDIA CENTER PROGRAMS (3) Organizational patterns, management procedures, and supervisory methods and techniques for instructional materials centers are considered. Major topics include: facilities; finance; selection, procurement, security and basic maintenance of equipment and materials; center operation; extension and in-service programs; assessments of systems and programs; and public relations. Prerequisite:

Six hours of instructional technology courses at the 400 level or above and consent of Chairperson.

0601.515 (13.515) MEDIA SELECTION (3 or 4) The course will include: (1) criteria used to select media, (2) classroom management techniques when using media, and (3) various evaluation instruments. Students will be required to provide a written rationale for (1) choosing specific materials, (2) providing a particular instructional setting for the learner, and (3) constructing a particular evaluation instrument. Prerequisite: 0601.485.

0601.533 (13.533) INSTRUCTIONAL TELEVISION (3) The ITV movement; ITV systems and terminology; elements of production; classroom utilization of the ITV product; developing the ITV workshops; careers in ITV; and aspects of administration, philosophy, evaluation and research in ITV. Students will be required to demonstrate competencies in critiquing ITV programs, and in writing and production of scripts utilizing appropriate television facilities. Prerequisite: 0601.485.

0601.534 (13.534) INDEPENDENT STUDY: INSTRUCTIONAL MOTION PICTURE FILMMAKING II (3) This course, building on previously acquired fundamentals, culminates in the production of an instructional motion picture for the classroom use. To this end, the student will explore and develop a working knowledge of scriptwriting techniques, directional techniques, including areas such as: background, audio, lighting, and optics applications. Special effects techniques, such as animation, slow and stop motion, will be developed in the course. Independent study under close supervision of instructor. Lab fee \$15.00. Prerequisite: 0601.423.

0601.563 (13.563) APPLIED PSYCHOLOGY OF LEARNING (3) Behaviorist and gestalt learning theories are examined. Particular emphasis is placed on the concepts of Gagne and Piaget. A research paper is required of students. Prerequisites: 0601.301 and one other instructional technology course.

0601.567 (13.567) INSTRUCTIONAL DEVELOPMENT (3) Includes an overview of the systems approach and its use in problem solving. The application of the systems approach with instructional technology to the problems of instruction is studied in detail. Students are required to demonstrate competencies in designing mediated instructional sequences and in evaluating media with behavioral descriptors. Prerequisites: 0601.485 and 0601.563 and consent of Chairperson.

0601.573 (13.573) INSTRUCTIONAL FACILITIES DESIGN (3) A systems approach to the integration of media and facilities into a single unit to fulfill instruction/training goals. Includes a schedule of time and sequential phasing to insure orderly relationships and interaction of human, technical, and environmental resources. Included are the application of equipment and facilities designed to mediate self-instruction as a part of individually prescribed instruction as well as equipment and facilities designed for large group or multi-media instruction. Student projects include facility designs for academic/training utilization. Prerequisite: Six hours of instructional technology courses at the 400 level or above and/or consent of Chairperson.

0601.689 (13.689) INTERNSHIP IN INSTRUCTIONAL TECHNOLOGY (3 or 6) Practical experience in instructional media is provided. The intern will work cooperatively under the direction of an appropriate College faculty member and an appropriate media field supervisor. Field trips may range from visits to local facilities to national agencies. A formal paper is required, appropriate in format and length to the nature of the internship. Prerequisite: Nine hours of instructional technology courses at the 400 level or above, and consent of Chairperson.

0601.695 (13.695) RESEARCH IN INSTRUCTIONAL TECHNOLOGY (3) Elements of research writing are investigated and basic concepts of inferential statistics are studied. Additionally, relevant research in the field of instructional technology is examined. Students are required to demonstrate competencies in research writing. Prerequisite: Six hours of instructional technology courses at the 400 level or above and consent of Chairperson.

0601.699 (13.699) MASTER'S THESIS IN INSTRUCTIONAL TECHNOLOGY (3 or 6) An original investigation, using an acceptable research method and design of a research problem, to be conducted under the direction of one or more faculty members. Credit granted only after thesis has been accepted by student's thesis committee. Prerequisite: Fifteen hours of instructional technology courses at the 400 level or above and consent of Chairperson.



# International Studies

Coordinator: DAVID FIRMAN

## I. Purpose:

To provide an interdisciplinary system of courses which will lead to an arts and science major in international studies, with opportunities to specialize in foreign areas. The major program is designed to prepare students for graduate studies, for careers in foreign service and other government agencies, and in commercial and industrial fields where foreign area specialists are required.

## II. Organization and Administration:

The program is administered by a committee composed of one representative from each of the following disciplines: business administration, economics, geography and environmental planning, history, political science, and sociology. The current members of the Committee who will also serve as advisors to students majoring in international studies are: David Firman, Professor of Geography (Chairman of the Committee); Arnold Blumberg, Professor of History; David Dent, Professor of Political Science; Edwin Hirshmann, Professor of History; Abolmajeid Hoojati, Professor of Sociology; Pritam Merani, Professor of Political Science; and Henry Sanborn, Professor of Economics.

## III. Scope:

All students majoring in international studies will complete 18 credit hours of required courses (indicated under IV A) and 27 credit hours of related electives under one of the two plans listed below:

### Plan A — Functional Specialization (Non-Area)

Under this plan, students will complete 27 elective hours of courses related to international affairs without concentration on any geographical area.

### Plan B — Area Specialization

This plan is designed to focus on important world regions. Students will complete 27 credit hours in related elective courses which concern a particular region. Area specialization on Asia (South, Southeast, and East) is currently available, in which students may elect Asian courses as follows: (1) courses from at least three different departments, and (2) at least three courses from areas other than the one of specialization. The remaining credits may be completed by taking courses in any of the departments in consultation with an adviser. Specialization on Western Europe, Latin America and other regions are possible on a less formal basis.

## IV. Major Requirements:

### A. Required courses for the major are as follows:

1. *Economics\** ..... 3 credit hours  
2204.315 Economic Development  
OR  
2204.327 International Economics
2. *Geography and Environmental Planning\** ..... 3 credit hours  
2206.381 Political Geography
3. *History\** ..... 3 credit hours  
2205.370 Diplomatic History of the United States Since 1900  
OR

2205.415 Diplomatic History of Europe 1815 to 1939

OR

2205.479 A History of Diplomacy

4. *Political Science\** ..... 6 credit hours

2205.303 Theory of International Politics

2207.428 Political Theory

5. *Sociology\** ..... 3 credit hours

2202.207 Cultural Anthropology

OR

2202.357 Ideology, Power, and Safety

B. Related Electives ..... 27 credit hours

These may be selected from any department which offers related electives, i.e., sociology, English literature, languages, art, philosophy, etc. Such courses will be selected by students in consultation with advisers, in order to broaden and/or specialize as desired under Plans A or B.

### C. Foreign Language:

A foreign language is required for the major. Students must select one of several languages in relation to their foreign area or functional interests as determined by their advisers. A student should be prepared to demonstrate a workable reading knowledge of that language. This requirement may be met by completing the intermediate course or equivalent of a modern foreign language.

### V. Transfer Students:

Transfer Students must take a minimum of 18 credits of upper division courses in International Studies at Towson State to fulfill requirements for the major.

\* Please consult this catalog for individual department prerequisites for these upper division courses. Most of the prerequisites can also be applied to the General College Requirements.



# Mathematics

**Professors:** HANSON, HORAK (Chairperson), PERREAULT, ZIMMERMAN

**Associate Professors:** BECKEY, DAVIS, GRAVES, HASTE, SIEGEL, ZIPP

**Assistant Professors:** CHEN, FISCHER, ILGENFRITZ, JONES, KAPLON, KIM, LIDTKE, NEUBERT, RIGGLEMAN, RUTENBERGS, SCHMITT, SMITH, SWENSEN, WAGNER

**Instructor:** ROSE

## PHILOSOPHY

The mathematics curriculum provides opportunities for students to do abstract reasoning applicable to many scientific or academic areas, to survey the field of mathematics, to study the applications of the discipline, and to prepare for additional study or for a career. The major programs prepare students for various careers, while the minor programs enhance most undergraduate concentrations.

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that these are in addition to the General College Requirements.

## BACHELORS DEGREE MATHEMATICS

(Secondary Education Program for those planning to be secondary school teachers.)

### Requirements

Major — total 66-67

1701.261	Fundamentals of Mathematics	(3) _____
1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____
1701.353	Elementary Geometry from an Advanced Standpoint	(3) _____
1701.361	Algebraic Structures	(4) _____
1701.423	Teaching Mathematics in Secondary Schools	(3) _____
0701.235	Fundamentals of Computing	(3) _____
1902.211-212 or 1902.221-222	General Physics	(8) _____

Student must take enough 300-400 level Mathematics courses to make a total of 30 hours in mathematics. 1701.423 may not be counted in this 30 hours. Either Computer Science 0701.337 or 0701.338 may be counted towards these 30 hours but not both.

		(3-4)
		(3)
		(3)
		(3)
0801.101	Careers in Education	(2)
2001.201	Educational Psychology	(3)
0803.341	Prin. of Secondary Education	(3)
0801.369	Education Media Lab.	(1)
0803.398	Student Teaching in Secondary Schools	(10)
0801.401	Foundations of Education	(3)

## BACHELORS DEGREE MATHEMATICS

(Pure Mathematics option. Recommended for those who intend to do graduate study in mathematics.)

### Requirements

Major — total 48

1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____
1701.261	Fundamentals of Math	(3) _____
1701.365	Linear Algebra	(3) _____
1701.373	Calculus III	(4) _____
0701.235	Fundamentals of Computing	(3) _____
1902.211-212 or 1902.221-222	General Physics	(8) _____
1701.361	Algebraic Structures	(4) _____
1701.473	Advanced Calculus I	(3) _____
1701.474	Advanced Calculus II	(3) _____

Three additional 300-400 level mathematics courses

_____	(3) _____
_____	(3) _____
_____	(3) _____

## BACHELORS DEGREE MATHEMATICS ARTS & SCIENCE PROGRAM

(Applied Mathematics Option)

### Requirements

Major — total 47-48

1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____
1701.261	Fundamentals of Math	(3) _____
1701.365	Linear Algebra	(3) _____
1701.373	Calculus III	(4) _____
0701.235	Fundamentals of Computing	(3) _____
1902.211-212 or 1902.221-222	General Physics	(8) _____

In addition:

2 courses from among 1701.331, 1701.332, 1701.435, 1701.436	(3) _____
_____	(3) _____

2 courses from among 0701.337, 1701.377, 1701.451, 1701.471	(3) _____
_____	(3) _____

1 course from among 1701.357, 1701.361, 1701.367, 1701.457	(3-4) _____
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1 course from among 1701.461, 1701.473, 1701.474, 1701.475, 1701.477	(3) _____
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## BACHELORS DEGREE MATHEMATICS ARTS & SCIENCE PROGRAM

(Applied Mathematics and Computing Option)

### Requirements

Major — total 56-57

1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____
1701.261	Fundamentals of Mathematics	(3) _____

1701.365	Linear Algebra	(3) _____
1701.373	Calculus III	(4) _____
0701.235	Fundamentals of Computing	(3) _____
0701.337	Introduction to Computer Science	(3) _____
1902.211-212 or	General Physics	(8) _____
1902.221-222		

#### In addition

3 courses from among 1701.331, 1701.332, 1701.377, 1701.435, 1701.436

_____	(3) _____
_____	(3) _____
_____	(3) _____

1 course from among 1701.361, 1701.451, 1701.471

1 course from among 1701.461, 1701.473, 1701.474, 1701.475, 1701.477

_____	(3) _____
2 courses from among 0701.338, 0701.339, 0701.315, 0701.437	(3) _____
_____	(3) _____

## BACHELORS DEGREE MATHEMATICS

(Double Major; Mathematics and Economics)

### Requirements

Major — total 64

1701.261	Fundamentals of Mathematics	(3) _____
1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____
1701.331	Probability	(3) _____
1701.332	Mathematical Statistics	(3) _____
1701.361	Algebraic Structures	(4) _____
1701.365	Linear Algebra	(3) _____
1701.373	Calculus III	(4) _____
1701.473	Advanced Calculus I	(3) _____
1701.474	Advanced Calculus II	(3) _____
0701.235	Fundamentals of Computing	(3) _____
2204.101	Economic Principles and Problems I	(3) _____
2204.102	Economic Principles and Problems II	(3) _____
2204.309	Intermediate Price Theory	(3) _____
2204.323	Money and Banking	(3) _____
2204.335	Macroeconomic Theory	(3) _____
2204.451	Introduction to Mathematical Economics	(3) _____

Plus a minimum of two semester hours of mathematics courses at the upper level to make a total of 36 hours in mathematics (one of the courses 0701.337 or 0701.338 may be counted toward these 36 hours but not both).

\_\_\_\_\_ (2-3) \_\_\_\_\_  
and six additional semester hours to be chosen from economics courses or 1701.377.

_____	(3) _____
_____	(3) _____

Courses recommended are 1701.209, 1701.251, 1701.435, 1701.436, 1701.471, 0701.337, 0701.338, 2204.327, 2204.337, and 2204.407. However 1701.209 and 1701.251 do not carry credit towards the mathematics major.

The following courses count simultaneously toward majors in economics and mathematics: 1701.331, 1701.332 and 1701.377. Fundamentals of Computing 1701.235, required of mathematics majors, is also acceptable for the economics major. Thus one who takes all the mathematics and computer science courses which count toward the

economics major need take only 18 hours of economics courses: 2204.101-102, 2204.309, 2204.323, 2204.335 and one other course.

Double majors who take Introduction to Mathematical Economics 2204.451 are excused from taking eight hours of Physics.

## MATHEMATICS MINOR

### Requirements

Minor — total 20

1701.261	Fundamentals of Mathematics	(3) _____
1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____

Plus enough mathematics courses above the 100 level (excluding 1701.101, 1701.201, 1701.205, 1701.211, 1701.321, 1701.323 and 1701.423) to make a total of 20 semester hours. At least one upper division course, excluding computer science courses, must be taken; and at most one computer science course may be counted towards the minor.

_____	(3-4) _____
_____	(3-4) _____
_____	(3-4) _____

## MATHEMATICS MINOR, ELEMENTARY EDUCATION MAJOR

### Requirements

Total 20

1701.204	Concepts of Mathematics for Elementary Teachers I	(3) _____
1701.261	Fundamentals of Mathematics	(3) _____
1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____

Plus enough mathematics courses above the 100 level (excluding 1701.101, 1701.201, 1701.205, 1701.211, 1701.321, 1701.323, and 1701.423) to make a total of 20 semester hours. At least one upper division course, excluding computer science courses must be taken; and at most one computer science course may be counted toward the minor. 1701.231 and 1701.351 are recommended.

_____	(3) _____
_____	(3) _____

Elementary education majors who complete a mathematics minor will be certified to teach junior high school mathematics as well as elementary school. Special student teaching assignments are available so that the student will get experience in teaching mathematics in addition to the regular elementary experience. Students in this program should be advised by the chairman of the elementary education department and by a member of the mathematics department. (See also the Education Section of the Bulletin.)

### Transfer Credit Policies

If a student submits mathematics credits which are more than ten years old at the time of admission or readmission, the chairperson, after reviewing these records, may ask that some courses be repeated or that new courses be substituted.

Secondary education mathematics majors are required to take 1701.423 and at least three upper-division courses

of their mathematics major program at Towson State College.

### Notes for Majors and Minors

Mathematics majors in the secondary education program should do their student teaching in their senior year. Any student who wishes to deviate from this policy must obtain permission from the Department of Mathematics, prior to the beginning of the junior year. If the Secondary Education major plans to teach at the high school level, the taking of 1701.365 Linear Algebra and 1701.373 Calculus III is strongly advised. Consult the Education Department section in this Bulletin for additional course requirements for prospective Secondary School teachers.

Arts and science mathematics majors are required to take at least four upper-division courses of their mathematics major programs at Towson State College.

Arts and science mathematics majors with minors in economics may substitute 2204.451 for the physics requirement.

Mathematics majors or minors who receive a grade of D in a 100 level course prerequisite to calculus must repeat the course no later than concurrent with calculus.

Mathematics majors or minors must attain a grade of C in any 200, 300 or 400 level course used as a prerequisite. Unless otherwise noted, prerequisites must be satisfied prior to taking a course.

The program of the minor should be approved by the student's mathematics department advisor. (A minor in mathematics enables a student to meet the subject-matter requirements for a Maryland secondary school teacher's certificate to teach mathematics.)

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

### Placement

Each student should consult those portions of this catalog describing his major and minor programs to see whether specific mathematics courses are required or recommended.

It is recommended that those students having at least one and one-half years of high school algebra, one-half year of trigonometry and one-half year of analytic geometry take the Mathematics Placement Test, which will cover the above subjects. Call 321-3091 before May 1st to register for this test. (It is expected that some, but not necessarily all, students who have had the above courses will enroll in Calculus I as an initial mathematics course at Towson.) Those taking the Placement Test will be advised regarding placement in a mathematics course prior to registration.

Students should enroll in that mathematics course for which they have the necessary prerequisites, but for which they are not over-prepared.

1701.111 and 1701.211 are courses specifically designed for students of business, economics, psychology and other social sciences.

1701.204 and 1701.205 may be used to satisfy the group II general education requirements for elementary and early childhood education majors.

For other majors, any mathematics or computer science course (with the exception of 1701.010, 1701.204, 1701.205, 1701.321 and 1701.323) may be used to satisfy the group II requirement.

### Mathematics Course Numbers

A note on the numbering system: the left digit of the course number indicates the level of the content. The middle digit of the course number indicates the area of the content: zero-general; 1-service; 2-mathematics education; 3-probability and statistics, numerical analysis; 5-geometry; 6-algebra; 7-analysis; 9-readings, special topics, and seminars in mathematics.

### MATHEMATICS COURSES (1701)

#### Service Division

1701.010 (50.010) INTERMEDIATE ALGEBRA (0) Real number system, solutions of equations or inequalities in one and two variables, solutions of quadratic equations, exponents, radicals, functions, polynomial algebra, progressions and complex numbers. Prerequisite: One year of high school algebra.

#### Lower Division — Undergraduate

1701.101 (50.101) ELEMENTS OF MATHEMATICS (3) Topics selected from systems of numeration, logic, sets, algebraic properties of real numbers, abstract algebraic structures, probability, and geometry. Prerequisite: One year of high school algebra. (Not open to mathematics majors, mathematics minors, early childhood education or elementary education students or any students who have received credit for any college level mathematics course.)

1701.111 (50.111) ALGEBRA FOR APPLICATIONS (3) Intended primarily for students in business, economics, psychology and the social sciences. Included is an introduction to the real number system, inequalities, graphing of algebraic relations and basic algebraic techniques. The emphasis will be on applications of linear equations, matrices, determinants, linear programming and simple games. Prerequisite: Two years high school algebra or 1701.010. (Not open to mathematics majors or minors.)

1701.115 (50.115) MATHEMATICS I (3) Real numbers and sets, equations and inequalities, functions (including logarithmic and exponential functions) and trigonometry. Prerequisites: High school geometry and two years of high school algebra; or 1701.010.

1701.116 (50.116) MATHEMATICS II (3) Complex numbers; determinants; and analytic geometry of the line, plane, conics, and three-space surfaces. Prerequisite: 1701.115 or two years high school algebra and one-half year trigonometry.

1701.119 (50.119) PRE-CALCULUS (3) Real numbers, functions (including exponential, logarithmic, trigonometric and circular functions), matrices and determinants, analytic geometry using vectors in two- and three-space. Prerequisites: One and one-half to two years algebra, one-half year trigonometry and one-half year analytic geometry.

1701.204 (50.204) CONCEPTS OF MATHEMATICS FOR ELEMENTARY TEACHERS I (3) Logic, sets, systems of numeration, abstract systems, elements of number theory, and the development of the number system through the real numbers. Prerequisite: One year of high school algebra. (Required of all early childhood education and elementary education students. Satisfies mathematics requirement for these students. Not open to others.)

1701.205 (50.205) CONCEPTS OF MATHEMATICS FOR ELEMENTARY TEACHERS II (3) Elements of algebra, metric and non-metric geometry, probability, statistics, measurement. Prerequisite: 1701.204. (This course or its equivalent is required of all early childhood education and elementary education students, except those who are also mathematics minors. Not open to others.)

- 1701.209 (50.209) MATHEMATICS OF FINANCE (3) Compound interest and discount, amortization, sinking funds, annuities, and elements of insurance. Prerequisite: 1701.111 or 1701.115 or 1701.119 or equivalent. (No credit toward a mathematics major.)
- 1701.211 (50.211) CALCULUS FOR APPLICATIONS (3) Intended primarily for students in business, economics, psychology and the social sciences. Elements of differential and integral calculus from an intuitive standpoint with emphasis on the use of calculus in the above fields. Exponential and logarithmic functions, sequences and series included. Prerequisite: 1701.111 or 1701.115 or 1701.116 or 1701.119. (Not open to mathematics majors or minors.)
- 1701.231 (50.231) BASIC STATISTICS (3) Frequency distributions with emphasis on binomial and normal distributions, percentiles, measures of central tendency and variability, sampling theory, tests of hypotheses, regression analysis, correlations, and analysis of variance or time series. Emphasis will be placed on practical applications of statistics. Prerequisite: 1701.111 or 1701.115 or equivalent. (Not open to mathematics majors.)
- 1701.237 (50.237) ELEMENTARY BIOSTATISTICS (4) Elementary statistical concepts and their application to the biological and health sciences. Descriptive statistics, estimation techniques, hypothesis testing, demography and vital statistics. Prerequisite: Two years high school algebra or 1701.010. Not open to those who have completed 1701.231 or 1701.331. Not open to Mathematics Majors.
- 1701.251 (50.251) GRAPH THEORY (3) A course designed as a general education mathematics course for students with an interest in the social sciences. Also of interest to elementary education majors. Covers concepts and uses of graph theory. Applications from sociology, economics, genetics, games, etc. Prerequisite: Three years high school mathematics or any college mathematics course or consent of instructor.
- 1701.261 (50.261) FUNDAMENTALS OF MATHEMATICS (3) Logic, sets and functions, cardinality, introduction to algebraic structures, and mathematical induction. Prerequisite: 1701.116 or 1701.119 or consent of instructor.
- 1701.273 (50.273) CALCULUS I (4) Functions, limits and continuity; introduction to sequences differentiation of algebraic, inverse, and transcendental functions; mean value theorem; differentials; completeness property of the real numbers; applications. Prerequisite: 1701.116 or 1701.119 or calculus course in high school or adequate score on Placement Test.
- 1701.274 (50.274) CALCULUS II (4) Definite and indefinite integrals, formal integration and applications; indeterminate forms; sequences and series of numbers, and power series. Prerequisite: 1701.273.
- 1701.205 (No credit toward a mathematics major or minor.)
- 1701.325 (50.325) TEACHING MATHEMATICS IN THE MIDDLE SCHOOL (3) Philosophy, learning, teaching models, specific methods or approaches, planning for teaching and learning, and applicable contemporary curricula in the middle school mathematics curriculum. Prerequisites: 1701.261 and 1701.273 and approval of instructor. (No credit toward a mathematics major or minor.)
- 1701.331 (50.331) PROBABILITY (3) Probability in sample spaces, discrete and continuous random variables, distribution theory. Tchebyshev's theorem, central limit theorem, expected values and moments. Prerequisite: 1701.274.
- 1701.332 (50.332) MATHEMATICAL STATISTICS (3) Sample theory and distributions, point estimation, confidence intervals, tests of hypotheses, regression, correlation and analysis of variance. Prerequisite: 1701.331. (Offered only in the spring semester of the academic year.)
- \*1701.351 (50.351) ELEMENTS OF GEOMETRY (3) Designed to give the elementary education student additional background in geometry. Involves geometric definitions, vocabulary and techniques, constructions and scale drawings, and measurement of plane and space figures. Prerequisite: 1701.205 or equivalent. (Not open to mathematics majors.)
- \*1701.353 (50.353) ELEMENTARY GEOMETRY FROM AN ADVANCED STANDPOINT (3) Review of synthetic Euclidian geometry; non-Euclidian geometries; finite geometries and systems of axioms; classical theorems; elementary transformations. Prerequisites: 1701.261 and 1701.273. (Offered only in spring semester of academic year. No credit toward a mathematics major for arts and science students.)
- 1701.357 (50.357) COLLEGE GEOMETRY (3) Projective geometry, both synthetic and analytic, including duality; Desargues theorem, harmonic sequences, Pappus theorem, homogeneous coordinates, conics, polarities. Prerequisites: 1701.261 and 1701.273. (Offered only in the fall semester of the academic year.)
- 1701.361 (50.361) ALGEBRAIC STRUCTURES (4) Groups, rings, fields, integral domains, and polynomial rings. Prerequisite: 1701.261.
- 1701.365 (50.365) LINEAR ALGEBRA (3) Matrices, vector spaces, determinants, systems of linear equations, linear transformations, characteristic vectors and values, canonical forms. Prerequisite: 1701.261.
- 1701.367 (50.367) THEORY OF NUMBERS (3) Theory of prime numbers, the division algorithm, the fundamental theorem of arithmetic, polynomials, congruences, number theoretic functions. Prerequisite: 1701.261.
- 1701.373 (50.373) CALCULUS III (4) Differential and integral calculus of functions of several variables; differential and integral calculus of vector valued functions, including the divergence and Stokes theorems. Prerequisite: 1701.274.
- 1701.377 (50.377) MATHEMATICAL MODELS (3) Consideration of some mathematical problems in sociology, psychology, economics, management science and ecology, and developing appropriate mathematical models and techniques to solve them. Prerequisite: 1701.274 or consent of instructor.
- 1701.421 (50.421) APPLICATIONS OF MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (3) The course examines a series of applications of mathematics that may be used to enrich the secondary mathematics curriculum. (No credit towards a mathematics major.) Prerequisite: Teaching experience in mathematics or science or consent of instructor.

## Upper Division — Undergraduate and Graduate

Upper division courses not marked with an asterisk (\*) may be submitted for mathematics credit to the graduate school for the master's degree in education provided they have not been submitted for undergraduate credit.

\*1701.321 (50.321) TEACHING MATHEMATICS IN EARLY CHILDHOOD EDUCATION (2 or 3) Materials of instruction and methods of presentation with emphasis on the discovery approach. Prerequisites: 1701.204 and 1701.205. (No credit toward a mathematics major or minor.)

\*1701.323 (50.323) TEACHING MATHEMATICS IN ELEMENTARY SCHOOL (2 or 3) Nature of instruction, organization of units of instruction, provisions for developing understandings, new programs and research findings, and techniques of evaluation. Required of all elementary edu-



1701.422 (50.422) SEMINAR IN MATHEMATICS EDUCATION FOR ELEMENTARY SCHOOL TEACHERS (3) Analysis of topics, techniques, programs and materials used in the teaching and learning of mathematics in the elementary schools. (Credit may be applied to the elementary education mathematics minor program but not to other mathematics major/minor programs.) Prerequisite: 1701.321 or 1701.323.

\*1701.423 (50.423) TEACHING MATHEMATICS IN SECONDARY SCHOOLS (3) Objectives of mathematics instruction, examination of courses of study and textbooks, study of methods of teaching. Open only to students in the student teaching block. Prerequisites: 1701.353 and 1701.361 or consent of instructor. (This course shall be offered only in the academic year to be followed by 0803.398 Student Teaching in the Secondary Schools for the remainder of the semester. No credit toward a mathematics major for arts and science students.)

1701.424 (50.424) TEACHING THE METRIC SYSTEM (1) Methods and materials for the teaching of the metric system in the elementary and junior high schools. Prerequisite: A methods course in teaching mathematics or previous teaching experience.

1701.425 (50.425) METHODS AND MATERIALS FOR MATH LAB INSTRUCTION (1-3) Examination of and experiences with commercial and teacher-made materials designed for a laboratory (activity centered) approach to learning mathematics. Prerequisite: A methods course in teaching mathematics (1701.321, 323, 423) or previous teaching experience.

1701.427 (50.427) READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3) Directed study for the teacher of elementary school mathematics. Prerequisites: 1701.321 or 1701.323 and approval of instructor. (No credit toward a mathematics major.) May be taken for graduate credit only with approval of graduate program coordinator.

1701.429 (50.429) READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (1-3) Directed study for the teacher of secondary school mathematics. Prerequisite: Consent of instructor. (No credit toward a mathematics major for arts and science students.)

1701.435 (50.435) NUMERICAL ANALYSIS I (3) Error analysis, interpolation, numerical differentiation and integration, numerical solution of algebraic equations and of systems of algebraic equations. Prerequisites: 0701.235 and 1701.274. (Offered only in the fall semester of the academic year.)

1701.436 (50.436) NUMERICAL ANALYSIS II (3) Numerical solution of differential equations. Least squares and its applications, linear programming and extensions of the concepts of 1701.435. Prerequisite: 1701.435. (Offered only in the spring semester of the academic year.)

1701.451 (50.451) MATH RESEARCH IN GRAPH THEORY (3) A course designed to give an advanced mathematics major the opportunity to do independent, significant research in a field of mathematics through graph theory. Topics may include Hamiltonian and Eulerian graphs, coloring graphs, planar and non-planar graphs, connectivity problems and isomorphic graphs. Prerequisite: Consent of instructor.

1701.457 (50.457) DIFFERENTIAL GEOMETRY (3) Curvatures of curves and surfaces in  $E_3$ , geodesics, invariants, mappings and special surfaces. Prerequisite: 1701.373.

1701.461 (50.461) ADVANCED TOPICS IN ALGEBRA (3) Extension of the concepts of 1701.361. Prerequisite: 1701.365. (Offered only in the fall semester of the academic year.)

1701.471 (50.471) DIFFERENTIAL EQUATIONS (3) Theory and application of linear ordinary differential equations.

Solutions of non-linear ordinary differential equations of the first order. Prerequisite: 1701.274.

1701.473 (50.473) ADVANCED CALCULUS I (3) Dedekind cuts; Euclidian spaces; compact and connected sets, continuity, uniform continuity, limits, sequences and completeness in a metric space; Heine-Borel theorem; Weierstrass theorem; numerical sequences and series; differentiation, mean value theorem and differentiation of vector valued functions. Prerequisites: 1701.261 and 1701.274.

1701.474 (50.474) ADVANCED CALCULUS II (3) Riemann-Stieltjes integral, sequences and series of functions, convergence and uniform convergence, Stone-Weierstrass theorem, and functions of several variables. Prerequisite: 1701.473. (Offered only in the spring semester of the academic year.)

1701.475 (50.475) COMPLEX ANALYSIS (3) Complex number system, analytic functions, Cauchy's integral theorem and integral formula, Taylor and Laurent series, isolated singularities, Cauchy's residue theorem and conformal mappings. Prerequisite: 1701.373. (Offered only in the fall semester of the academic year.)

1701.477 (50.477) TOPOLOGY (3) Basic concepts of pointset topology, separation axioms, compact and connected spaces, product and quotient spaces, convergence, continuity and homeomorphisms. Prerequisite: 1701.473. (Offered only in the spring semester of the academic year.)

1701.491 (50.491) READINGS IN MATHEMATICS (1-3) Independent reading in selected areas of mathematics. Prerequisite: Consent of instructor. (Open only to seniors.)

## Graduate Division

1701.501 (50.501) HISTORY OF MATHEMATICS (3) An historical survey of the classical roots of contemporary mathematics with selected topics chosen from number theory, geometry, analysis and algebra. Prerequisites: 1701.274; 1701.353 or 1701.357; and 1701.361.

1701.521 (50.521) SEMINAR IN TEACHING ARITHMETIC (3) Analysis of new topics, techniques, and materials in arithmetic instruction. Students may not receive credit for both 1701.422 and 1701.521 except with special permission from the graduate program coordinator and the chairperson of the Mathematics Department. Prerequisite: 1701.321 or 1701.323.

1701.525 (50.525) SEMINAR IN MATHEMATICS EDUCATION FOR SECONDARY SCHOOL TEACHERS (3) An investigation of recent curricula, methods, and materials in secondary school mathematics instruction. Prerequisite: 1701.423 or equivalent.

1701.530 (50.530) STATISTICS — AN INTEGRATED APPROACH (4) Theory and practices of basic statistical analysis and inference with emphasis on analyzing and solving real problems using statistics. Descriptive statistics, introduction to probability, sampling distributions, estimation, hypothesis testing, regression, correlation, non-parametric techniques and analysis of variance, computer programming incorporated throughout. Prior knowledge of programming is not necessary. (Not open to those who have had 1701.332.) Prerequisite: 1701.274. (3 hours lecture, 2 hours lab.)

1701.531 (50.531) TOPICS IN PROBABILITY (3) Review of basic probability theory, types of convergence and limit theorems, elementary stochastic processes, Markov chains, birth and death processes, Gaussian processes. Examples and applications from engineering physical and social sciences, management and statistics. Prerequisite: 1701.331.

1701.553 (50.553) TOPICS IN GEOMETRY (3) Axiomatic development of Euclidian, elliptic and hyperbolic geometries; the study of the analytic plane, the sphere and the Poincaré model, as models for these axiomatic systems. Not open to students who have had 1701.353. Prerequisites: 1701.274 and 1701.361.

1701.561 (50.561) ELEMENTS OF GALOIS THEORY (3) Review of elementary group theory, polynomial rings, algebraic field extensions, Galois theory for fields of characteristic 0, solution of polynomial equations by radicals, other applications of Galois theory. Prerequisite: 1701.361.

1701.591 (50.591) SEMINAR IN MATHEMATICAL APPLICATIONS (3) Survey of topics to be chosen from linear programming, theory of games, mathematical biology, econometrics, mathematical ecology, Fourier Analysis, integral equations, partial differential equations, diffusion, stochastic processes, production theory, statistical mechanics, fluid dynamics. Prerequisite: 1701.373.

1701.595 (50.595) INDEPENDENT STUDY IN MATHEMATICS (1-3) Directed independent study in selected areas of graduate level mathematics. Prerequisite: Permission of instructor and graduate advisor (Math Dept.).



# Computer Science

(A program within the Mathematics Department)

Associate Professor: GRAVES

Assistant Professors: LIDTKE, SCHMITT

Students interested in computer oriented careers in teaching, research, business, engineering, or applied mathematics should consider minoring in this program. Staff members will aid students in designing programs to meet their needs.

## Computer Science Minor

All computer science minors are required to take 18 semester hours in Computer Science, of which 12 hours must be courses on the 300 and 400 level. Numerical Analysis (1701.435 and 1701.436) may be counted towards a computer science minor.

## COMPUTER SCIENCE COURSES (0701)

### Lower Division — Undergraduate

#### 0701.211 (23.211) INTRODUCTION TO DATA PROCESSING

(3) An introduction to the concepts of data processing: definitions, historical background, punched card systems, computer systems, basic concepts of programming, I/O devices, source data, operating systems and data communication.

#### 0701.212 (23.212) COBOL PROGRAMMING (3)

Study of COBOL language with students writing, testing and debugging programs, using cards, tapes and disks. Applications will be from business data processing, including payroll, accounting, inventory, file maintenance and simulation. Prerequisites: 0701.211 and 0506.201 or consent of instructor.

#### 0701.235 (23.235) FUNDAMENTALS OF COMPUTING (3)

A first course in computing to provide the student with the requisite knowledge and experience to use computers effectively in the solution of numeric and non-numeric problems. Two lecture hours and two laboratory hours. Prerequisite: Two years of high school algebra or equivalent.

#### 0701.237 (23.237) DATA STRUCTURES AND SORTING TECHNIQUES (3)

The course will investigate such topics as manipulation of linear sequential lists, singly and doubly linked lists, array representation, trees and other multi-linked structures, dynamic storage allocation, and sorting techniques on various media. Choice of the type of data structure for a given application will be related to the type of data, available storage media, and information required from the data. Various sorting and searching algorithms will be examined and evaluated from the viewpoint of tradeoffs among space, speed, and ease of programming. Prerequisites: Familiarity with at least one high level programming language.

### Upper Division — Undergraduate and Graduate

Upper division courses not marked with an asterisk (\*) may be submitted for computer science credit to the graduate school for the masters degree in education provided they have not been submitted for undergraduate credit.

#### 0701.313 (23.313) PRACTICUM IN PERIPHERALS (3)

A course giving practical experience with peripheral data processing equipment. Ten hours of laboratory per week in a data processing facility with varied supervised experiences. Evaluation by data processing facility supervisor and instructor. Prerequisite: 0701.212.

#### 0701.315 (23.315) SURVEY OF PROGRAMMING LANGUAGES

(3) Survey of the significant features of existing programming languages with emphasis on understanding the concepts abstracted from those languages. The course covers: algorithmic languages such as ALGOL, problem oriented languages such as SNOBOL, theoretically interesting languages such as LISP, and general purpose languages such as FORTRAN and PL/1. Prerequisites 0701.235 and 0701.212 or 0701.337.

#### 0701.317 (23.317) DISCRETE STRUCTURES (3)

This course deals with the basic mathematical structures used in computer science. It covers boolean algebra, graph theory, semigroups, grammar and automata, showing how these structures apply to heuristic programming, networks and computer construction. Prerequisites: 1701.261, 0701.337.

#### 0701.335 (23.335) ADVANCED BUSINESS PROGRAMMING (3)

A course in advanced programming concepts for business applications. Topics to be covered include the report writer feature, table handling, sorting, direct access files, program segmentation, and job control language. Students will work on several case studies and programming projects. Prerequisites: 0701.212, 0701.237.

#### 0701.337 (23.337) INTRODUCTION TO COMPUTER SCIENCE I (3)

Explores algorithms using a scientific programming language such as FORTRAN. Computer organization, the representation of information in the computer, machine coding and storage devices are topics to be covered. Prerequisite: 0701.235.

#### 0701.338 (23.338) INTRODUCTION TO COMPUTER SCIENCE II (3)

Introduces the concepts of hardware and software systems. The hardware concepts of logic design, micro-programming, machine architecture and design are covered. Software systems such as assemblers, macros, loaders, and couplers are covered. An ALGOL type language is used to apply programming techniques to several projects. Recent developments in the computer field are analyzed. Prerequisite: 0701.337.

#### 0701.339 (23.339) PROGRAMMING SYSTEMS (3)

This course introduces the student to basic computer organization, machine language programming and the use of assembly language programming. Emphasis will be on the overall structure of machines and programming systems. Prerequisite: 0701.212 or 0701.338.

#### 0701.397 (23.397) A PRACTICUM IN COMPUTER SCIENCE (3)

This course is designed to give Computer Science students the opportunity to be involved in a computing facility. Each student will be assigned to a specific facility associated with a local business or industry and will be supervised by the appropriate supervisor of the computing facility and by the faculty member in charge of the course. Prerequisites: 6 hours of upper division Computer Science courses and the consent of the instructor.

#### 0701.411 (23.411) SYSTEMS AND DESIGN (3)

A course designed to guide the student through the stages of the evolution of data processing systems including analyses of present information flow, system specifications, equipment selection, and implementation of the system to provide an understanding of the skill and knowledge needed for the effective use of data processing equipment in meeting information needs. Prerequisite: 0701.339.

#### 0701.431 (23.431) SELECTED TOPICS IN COMPUTER SCIENCE (1-3)

Independent studies in selected areas of computer science. This course may be taken more than once, but one may not accumulate more than four credits. Prerequisite: Consent of instructor and nine hours of computer science.

0701.437 (23.437) FILE AND DATA STRUCTURES (3) This is a study of the relations which hold among elements of data involved in problems, the structures of storage media and machines, the methods which are useful in representing structural data in storage, and the techniques of storing data, strings, arrays, linear and orthogonal lists. The

representation of trees and graphs is covered. Storage systems and structures, symbol tables, searching techniques and sorting techniques are developed. Formal specification of data structures in programming languages and generalized data management systems are investigated. Prerequisite: 0701.339.



# Modern Languages

Professors: CACOSSA, GIRO, MAGILL, J. SHEETS,  
VIDAL-LLECHA

Associate Professors: McDERMOTT, POIRIER

Assistant Professors: EVANS (Chairperson), HAAPT, LEVNO

Instructor: LEETCH

The purposes of the Modern Languages Department are to offer a major or minor in French, German and Spanish, to offer the required courses for the teaching of modern foreign languages and to offer language electives to all students of the college who wish to acquire a reading or conversational ability in one or more of these languages: Russian, Chinese, Portugese, Hebrew, Japanese and Italian. Expansion of these non-major languages will be made in response to expressed student interest.

## BACHELOR OF ARTS DEGREE — MODERN LANGUAGES

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that these are in addition to the General College Requirements.

### Requirements

Major — total — 30

#### Program in French

1102.301	French Conversation & Comp. 1	(3)_____
1102.302	French Conversation & Comp. II	(3)_____
1102.321	Survey of French Literature I	(3)_____
1102.322	Survey of French Literature II	(3)_____

18 hours of electives from within the department's offerings in the target language, including nine hours of literature courses at the 400 level:

_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____

#### Program in German

1103.301	German Conversation & Comp. I	(3)_____
1103.302	German Conversation & Comp. II	(3)_____
1103.321	Survey of German Literature I	(3)_____
1103.322	Survey of German Literature II	(3)_____

18 hours of electives from within the department's offerings in the target language, including nine hours of literature courses at the 400 level:

_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____

#### Program in Spanish

1105.301	Span. Conversation & Comp. I	(3)_____
1105.302	Span. Conversation & Comp. II	(3)_____
1105.311	Culture and Civilization I	(3)_____

1105.312	Culture and Civilization II	(3)_____
1105.321	Survey of Spanish Lit. I	(3)_____
1105.322	Survey of Spanish Lit. II	(3)_____

12 hours of electives from within the department's offerings in the target language, including nine hours of literature courses at the 400 elvel:

_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____

The requirement of six hours of culture and civilization for Spanish majors is strongly felt by the Spanish faculty to be a necessity in their program, primarily because of the great diversity of Spanish-speaking countries in Europe, South America and Central America, and the importance of a knowledge of this diversity for all who teach or otherwise use Spanish.

If a student is a teacher education major, students should elect Advanced Grammar:

_____	(3)_____
_____	(3)_____
_____	(3)_____

See this catalogue for further details.

Language placement information can be found on page 17 of this booklet.

### Language Minor

The minor officially does not exist at Towson State College. The term "minor" refers to the Maryland State Department of Education teaching certificate requirement. These are either (a) 24 hours of college credit in the particular language, or (b) 18 hours if two or more years were absolved in a secondary school after the ninth grade. In addition, Education 0803.353 is required of teacher candidates.

### Policies Concerning Language

The second semester of an elementary language course must be completed successfully before credit is granted for the first semester's work.

The completion of the intermediate level, or its equivalent, is required of all candidates for the Bachelor of Arts degree. This requirement may be met by (a) completing two or more years of the language in high school plus the intermediate level course in college, (b) completing the elementary and intermediate level courses in the language in college, (c) successfully completing an equivalence examination administered by the Department of Modern Languages at Towson State College, (d) successfully completing one semester of any course beyond the intermediate level or (e) successfully completing a credit for experience examination at the 300 level.

### Placement in Languages

The Modern Languages Department's policy regarding placement of entering students with high school language study is:

1. One year of high school language study, the student may register for 101 or 102.
2. Two years of high school language study, the student may register for 102 or 201.

3. Three years of high school language study, the student may register for 201 or 202.
4. Four years of high school language study, the student may register for 202 or any 300 level course.
5. Five years of high school language study, the student may register for any 300 level course.

Students will normally want to register for the higher level course for which they are qualified. Deviations from this plan must be approved by the Department of Modern Languages.

## MODERN LANGUAGE COURSES

1102.475, 1103.475, 1105.475 [32.475, 36.475, 82.475] USE OF AUDIO-VISUAL TECHNIQUES IN MODERN LANGUAGE TEACHING (3, 3, 3) Principles of design and components of communication will be presented. Demonstrations on basic materials production will be given. Students will be required to make materials and show how their materials can be used in foreign language instruction. Prerequisites: Previous teaching experience or consent of the department chairperson.

1102.483, 1103.483, 1105.483 [32.483, 36.483, 82.483] SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3, 3, 3) Studies in the area of language teaching techniques with changing emphasis from year to year. Prerequisite: Consent of the department chairperson.

## CHINESE COURSES (4901)

### Lower Division — Undergraduate Only

4901.111-112 (33.111-112) ELEMENTARY MODERN CHINESE I, II (3, 3) The first and second of a series of four courses in the Chinese language. An introduction to standard modern Chinese (Mandarin). Emphasis is on reading and writing of Chinese. Pin Yin, the phonetic system of pronouncing Chinese words is introduced. Text, sound tape and vocabulary cards.

## FRENCH COURSES (1102)

### Lower Division — Undergraduate

1102.101-102 (32.101-102) FRENCH ELEMENTS I, II (3-4, 3-4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation; introduction to French culture.

1102.201-202 (32.201-202) FRENCH INTERMEDIATE I, II (3-4, 3) Review of grammar; conversation and prose composition; reading of texts of cultural value; outside readings. Prerequisite: 1102.101-102 or equivalent. Conducted in French.

### Upper Division — Undergraduate Only

1102.301-302 (32.301-302) FRENCH COMPOSITION AND CONVERSATION I, II (3, 3) Intensive exercises in French composition and conversation beyond the intermediate level. Prerequisites: 1102.201-202 or equivalent. Conducted in French.

1102.303 (32.303) FRENCH STYLISTICS (3) Development of writing skills with stress on language structure and important aspects of style. Prerequisite: 1102.301-302 or equivalent. Conducted in French.

1102.311 (32.311) FRENCH CULTURE AND CIVILIZATION (3) A brief survey of the history, geography, and institutions of France. Prerequisite: 1102.301-302 or equivalent. Conducted in French.

1102.321, 322 (32.321, 322) SURVEY OF FRENCH LITERATURE I, II (3, 3) French literature from Chanson de Roland to the present. Prerequisite: 1102.201-202 or equivalent. Conducted in French.

1102.331 (32.331) FRENCH FOR BUSINESS (3) Reading, speaking and writing practice for simple business transactions in French, as an introduction to specific training in functional areas of foreign trade. Basic business correspondence and dictation, practical situation dialogues, translation and analysis of economic and financial news. (Team taught with cooperation of Business Administration Department.) Prerequisite: 1102.201-202, its equivalent, or consent of instructors.

1102.391 (32.391) ADVANCED FRENCH GRAMMAR (3) French syntax, idiomatic construction, word formation. Conversation, oral and written drill. Prerequisite: 1102.301, 302. Conducted in French.

### Upper Division — Undergraduate and Graduate

1102.325 (32.325) MASTERPIECES OF FRENCH LITERATURE IN TRANSLATION (3) An intensive study of English translations of a limited selection of works chosen from the acknowledged masterpieces of French literature, presented in chronological order (not open to French majors). Prerequisite: English 1501.102.

1102.401 (32.401) FRENCH PHONETICS (3) The pronunciation of contemporary French; drill in pronunciation. Prerequisite: completion of intermediate French 1102.201, 202.

1102.402 (32.402) APPLIED FRENCH LINGUISTICS (3) Phonetics, morphology, syntax, points of interference. Linguistic study relating to methodology for French teachers. Prerequisites: 1102.301-302 or equivalent. Conducted in French.

1102.421 (32.421) FRENCH LITERATURE OF THE SEVENTEENTH CENTURY I (3) Principal works of the major writers in poetry, drama, philosophy, criticism, and the novel, to about 1660. Prerequisite: 1102.321, 322 or equivalent. Conducted in French.

1102.422 (32.422) FRENCH LITERATURE OF THE SEVENTEENTH CENTURY II (3) Continuation of French 32.421 from 1660 to 1700. Prerequisite: 1102.321, 322 or equivalent. Conducted in French.

1102.425 (32.425) FRENCH LITERATURE OF THE EIGHTEENTH CENTURY (3) Principal works of the major writers with the concurrent literary and philosophical trends. Prerequisite: 1102.321, 322 or equivalent. Conducted in French.

1102.431 (32.431) FRENCH LITERATURE OF THE NINETEENTH CENTURY I (3) The rise, flowering, and decline of Romanticism, with the contemporary writers outside the movement. Prerequisite: 1102.321, 322 or equivalent. Conducted in French.

1102.432 (32.432) FRENCH LITERATURE OF THE NINETEENTH CENTURY II (3) The major literary figures and doctrines of the latter half of the nineteenth century. Prerequisite: 1102.321, 322 or equivalent. Conducted in French.

1102.437 (32.437) WOMEN WRITERS IN TRANSLATION (3) A study of the writings and the image of women in languages other than English. Changing emphasis from semester to semester: focus on a theme, a period or a geographical area. Prerequisites: Three English courses, including 1501.102 or 1501.104, or permission of the instructor. Credit cannot be applied towards a major in a language.

1102.441 (32.441) FRENCH LITERATURE OF THE TWENTIETH CENTURY I (3) From Gide, Proust, Valéry,

Péguy, and Claudel to the Second World War. Prerequisite: 1102.321, 322 or equivalent. Conducted in French.

1102.422 (32.422) FRENCH LITERATURE OF THE TWENTIETH CENTURY II (3) Sartre, Camus, Anouilh, and other present-day writers. Prerequisite: 1102.321, 322 or equivalent. Conducted in French.

1102.451-452 (32.451-452) FRENCH POETRY I, II (3,3) The development of French poetry from the Middle Ages to the present day. Conducted in French. Prerequisite: 1102.321, 322.

1102.461-462 (32.461-462) FRENCH DRAMA I, II (3,3) The development of French drama from the Middle Ages to the present day. Conducted in French. Prerequisite: 1102.321, 322.

1102.470 (32.470) SPECIAL TOPICS IN FRENCH (3) Discussion of a central topic with changing emphasis from year to year. Prerequisites: 1102.321-322 Survey of French Literature, or the equivalent.

1102.471 (32.471) THE FRENCH NOVEL I (3) From the 17th century to Flaubert (theory of the novel as a genre, the novel from *Préclosité* to "La Princesse de Clèves" in the 17th century, the picaresque and philosophical novel in the 18th century, Balzac and Stendhal in the 19th century). Prerequisite: 1102.321, 322 or equivalent. Conducted in French.

1102.472 (32.472) THE FRENCH NOVEL II (3) From Flaubert to the "Nouveau Roman" [evolution of the novel from Flaubert to Proust, Gide, Mairaux, Giono and the theories of the "Nouveau Roman", Robbe-Grillet and Butor]. Prerequisite: 1102.321, 322 or equivalent. Conducted in French.

1102.487 (32.487) TRAVEL AND STUDY ABROAD (4-15) Study at a French University. Students will live and take courses at the University of Nantes, France. Dates: February through June (1 semester). Prerequisites: Three years of college French or equivalent, consent of department chairperson.

1102.491 (32.491) DIRECTED READINGS IN FRENCH LITERATURE (3) Reserved for superior students under the guidance of a department advisor. Prerequisites: at least three hours of literature study at the 400 level, consent of department chairperson. Conducted in French.

1102.492 (32.492) DIRECTED READINGS IN FRENCH (3) Similar to 1102.491 with concentration on a different subject matter. Prerequisites: at least three hours of literature study at the 400 level, consent of department chairperson. Conducted in French.

## Graduate Division

1102.505 (32.505) ETUDES ET TRAVAUX STYLISTIQUES (3) Practice in writing and comparison of style of various writers. Intensive and detailed *explications de texte*. Discussion, oral and written reports. Prerequisite: Undergraduate degree in French. Conducted in French.

1102.533-534 (32.533-534) SEMINAR ON FRENCH CLASSICISM I, II (3,3) The origins and underlying ideas of classicism. Study of main classic writers, with shifting emphasis from year to year. Prerequisite: Undergraduate degree in French. Conducted in French.

1102.538 (32.538) SEMINAR IN 18TH CENTURY FRENCH LITERATURE (3) The literature of the French Enlightenment, concentrating on one or two major authors, with shifting emphasis from year to year. Prerequisite: Undergraduate degree in French. Conducted in French.

1102.539 (32.539) THE ROMANTIC ERA IN FRANCE (3) Sources and theories of French Romanticism. Works of major French romantic writers, with shifting emphasis

from year to year. Prerequisite: Undergraduate degree in French. Conducted in French.

1102.543-544 (32.543-544) PERSPECTIVES DE CRITIQUE LITTÉRAIRE EN FRANCE (3,3) A history of French literary criticism leading to the study of the various techniques and objectives of all literary criticism and analysis eventuating in the application of these techniques by the student himself to selected works of French literature. Prerequisite: Undergraduate degree in French. Conducted in French.

1102.571 (32.571) SPECIAL TOPICS IN FRENCH LANGUAGE, LITERATURE AND CIVILIZATIONS (3) Grand Mouvements Littéraires en France du IXX et XX Siècles. Prerequisite: Undergraduate degree in French. Conducted in French.

## GERMAN COURSES (1103)

### Lower Division — Undergraduate

1103.101-102 (36.101-102) GERMAN ELEMENTS I, II (3-4, 3-4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.

1103.201-202 (36.201-202) GERMAN INTERMEDIATE I, II (3-4, 3) Review of grammar; conversation and prose composition; reading of texts of cultural value. Prerequisite: 1102.101-102 or equivalent. Conducted in German.

### Upper Division — Undergraduate Only

1103.301-302 (36.301-302) COMPOSITION AND CONVERSATION I, II (3,3) Composition and conversation beyond intermediate level. Prerequisite: 1103.201-202 or equivalent. Conducted in German.

1103.303 (36.303) GERMAN STYLISTICS (3) Development of writing skills with stress on language structure and important aspects of style. Prerequisite: 1103.301-302 or the equivalent.

1103.311 (36.311) CULTURE AND CIVILIZATION (3) A brief survey of the history, geography, and institutions of Germany. Prerequisite: 1103.201-202 or equivalent. Conducted in German.

1103.321-322 (36.321-322) SURVEY OF GERMAN LITERATURE I, II (3,3) German literature from the Hildebrandlied to the present. Prerequisite: 1103.201-202 or equivalent. Conducted in German.

1103.391 (36.391) ADVANCED GERMAN GRAMMAR (3) German syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Prerequisite: 1103.301-302. Conducted in German.

### Upper Division — Undergraduate and Graduate

1103.325 (36.325) MASTERPIECES OF GERMAN LITERATURE IN TRANSLATION (3) An intensive study of English translations of a number of acknowledged masterpieces of German literature. Not open to German majors. Prerequisite: English 1501.102.

1103.401 (36.401) GERMAN PHONETICS (3) The pronunciation of contemporary German, drill in pronunciation. Prerequisite: Completion of Intermediate German 1103.201-202.

1103.427-428 (36.427-428) CLASSICISM I, II (3) First semester; the beginnings of German classicism: Goethe, Schiller, Lessing; second semester: the later works of Goethe and Schiller. Prerequisite: 1103.321-322 or equivalent. Conducted in German.

- 1103.431 (36.431) ROMANTICISM (3) German literature during the Romantic era (1790-1830). Hölderlin, Novalis, Tieck, Brentano, Grillparzer. Prerequisite: 1103.321-322 or equivalent. Conducted in German.
- 1103.441 (36.441) MODERN GERMAN LITERATURE (3) The modern masters: Kafka, Mann, Hesse, Rilke, Brecht. Prerequisite: 1103.321-322 or equivalent. Conducted in German.
- 1103.442 (36.422) GERMAN LITERATURE SINCE 1945 (3) Themes and movements since World War II. Poetry. Eich, Enzenberger, Celan, Bachmann; prose fiction: Böll, Grass; drama: Borchert, Dürrenmatt, Frisch. Prerequisite: 1103.321-322 or equivalent. Conducted in German.
- 1103.451 (36.451) STUDIES IN THE GERMAN LYRIC (3) Focus on a particular period, movement or author, to be determined after consultation with majors. Prerequisite: 1103.321-322 or equivalent. Conducted in German.
- 1103.461 (36.461) GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES (3) The development of modern German drama in the successive literary movements, beginning with Kleist. Prerequisite: 1103.321-322 or equivalent. Conducted in German.
- 1103.465 (36.465) GOETHE'S FAUST (3) A study of the background, themes and structures of this masterpiece. Prerequisite: 1103.321-322 or equivalent. Conducted in German.
- 1103.470 (36.470) SPECIAL TOPICS IN GERMAN (3) Discussion of a central topic with changing emphasis from year to year. Conducted in German. Prerequisite: 1103.321-322 Survey of German Literature, or the equivalent.
- 1103.481 (36.481) THE GERMAN NOVELLE (3) The theory and development of the Novelle in German literature from Goethe to the present. Prerequisite: 1103.321-322 or equivalent. Conducted in German.
- 1103.491-492 (36.491-492) DIRECTED READINGS IN GERMAN (3, 3) Reserved for superior students under the guidance of a departmental advisor. Content related to student's previous program. Prerequisites: at least three hours of study at the 400 level, consent of department chairperson.

## GREEK COURSES

- 11101.101-102 (37.101-102) ELEMENTS OF MODERN GREEK I, II (3, 3) A thorough foundation in grammar; drills in pronunciation; elementary conversation and composition; introduction to Greek culture.

## HEBREW COURSES (1111)

### Lower Division — Undergraduate

- 1111.101-102 (39.101-102) ELEMENTS OF HEBREW I, II (3, 3) An introduction to Hebrew. Speaking, reading, and writing, the development of conversational ability, free composition, and translation from English into Hebrew. Credit given on completion of both semesters.
- 1111.201-202 (39.201-202) HEBREW INTERMEDIATE I, II (3, 3) A continued review of grammatical structure with emphasis on conversational and reading fluency. Vocabulary building, composition and reading and discussion of selected outside readings. Prerequisites: 1111.101-102.

## ITALIAN COURSES (1104)

### Lower Division — Undergraduate

- 1104.101-102 (46.101-102) ITALIAN ELEMENTS I, II (3-4, 3-4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.

- 1103.201-202 (46.201-202) ITALIAN INTERMEDIATE I, II (3-4, 3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: 1104.101-102 or equivalent.

### Upper Division — Undergraduate Only

- 1104.301-302 (46.301-302) ITALIAN COMPOSITION AND CONVERSATION I, II (3, 3) Composition and conversation beyond the intermediate level. Prerequisite: 1104.201-202 Conducted in Italian.
- 1104.321-322 (46.321-322) SURVEY OF ITALIAN LITERATURE I, II (3, 3) A thorough examination of Italian literature from the thirteenth century to the present. Prerequisite: 1104.201-202. Conducted in Italian.

## JAPANESE COURSES (4901)

### Lower Division — Undergraduate

- 4901.107-108 (33.107-108) PORTUGUESE ELEMENTS I, II (4, 4) Development of elementary vocabulary and sentences, forms of written language, conversation, composition and translation. This course will be given using the techniques of programmed instruction.
- 4901.205-206 (33.205-206) JAPANESE INTERMEDIATE III, IV (3, 3) Review of elementary Japanese; intermediate Kanji; conversation and prose composition; translations; outside readings commensurate with the ability of individual student. This course will be given using the techniques of programmed instruction. Prerequisite: Completion of 4901.105-106.

## PORTUGUESE COURSES (4901)

### Lower Division — Undergraduate

- 4901.107-108 (33.107-108) PORTUGUESE ELEMENTS I, II (4, 4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.
- 4901.207-208 (33.207-208) PORTUGUESE INTERMEDIATE I, II (4, 3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: 4901.107-108 or equivalent.

## RUSSIAN COURSES (1106)

### Lower Division — Undergraduate

- 1106.101-102 (74.101-102) RUSSIAN ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation, elementary conversation; composition and translation.
- 1106.201-202 (74.201-202) RUSSIAN INTERMEDIATE I, II (3, 3) Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: 1106.101-102 or equivalent.

## SPANISH COURSES (1105)

### Lower Division — Undergraduate

- 1105.101-102 (82.101-102) SPANISH ELEMENTS I, II (3-4, 3-4) Thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.
- 1105.201-202 (82.201-202) SPANISH INTERMEDIATE I, II (3-4, 3) Review of grammar; conversation and prose composition; reading of texts of cultural value; outside readings commensurate with the ability of the individual student. Prerequisite: 1105.101-102 or equivalent. Conducted in Spanish.



## Upper Division — Undergraduate Only

- 1105.301-302 (82.301-302) COMPOSITION AND CONVERSATION I, II (3, 3) Composition and conversation beyond intermediate level. Prerequisite: 1105.201-202 or equivalent. Conducted in Spanish.
- 1105.311 (82.311) CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES I (3) Value-system and way of life as embodied in the language, history, arts and customs of Spain. Prerequisite: 1105.301-302 or equivalent. Conducted in Spanish.
- 1105.312 (82.312) CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES II (3) Value-system and way of life as embodied in the language, history, arts and customs of Ibero-America. Prerequisite: 1105.301-302 or equivalent.
- 1105.321-322 (82.321-322) SURVEY OF SPANISH LITERATURE I, II (3, 3) Spanish and Spanish-American literature, with collateral readings. Prerequisite: 1105.201-202 or equivalent. Conducted in Spanish.
- 1105.391 (82.391) ADVANCED SPANISH GRAMMAR (3) Spanish syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Prerequisite: 1105.301, 302. Conducted in Spanish.

## Upper Division — Undergraduate and Graduate

- 1105.235 (82.235) MASTERPIECES OF SPANISH LITERATURE IN TRANSLATION (3) An intensive study of English translations of a limited selection of works chosen from the acknowledged masterpieces of Spanish literature, presented in chronological order (not open to Spanish majors). Prerequisite: 1501.102.
- 1105.401 (82.401) SPANISH PHONETICS (3) The pronunciation of contemporary Spanish, drill in pronunciation. Prerequisite: Completion of intermediate Spanish 1105.201-202.
- 1105.402 (82.402) SPANISH LINGUISTICS (3) The linguistic structure of the Spanish language with an introduction to transformational grammar. Prerequisite: 1105.301-302 or equivalent. Conducted in Spanish.
- 1105.417-418 (82.417-418) THE GOLDEN AGE IN SPANISH LITERATURE I, II (3, 3) Principal attention to Cervantes, Tirso de Molina, Lope de Vega, and Ruiz de Alarcón; Góngora and his role. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.431 (82.431) NINETEENTH CENTURY SPANISH LITERATURE (3) The main literary movements of the century: neo-classicism, romanticism, realism, naturalism, and special emphasis on "costumbrismo." Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.435 (82.435) NINETEENTH CENTURY SPANISH-AMERICAN LITERATURE I (3) Principal works of the major writers to about 1860. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.436 (82.436) NINETEENTH CENTURY SPANISH-AMERICAN LITERATURE II (3) Principal works of the major writers from 1860-1900. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.441 (82.441) TWENTIETH CENTURY SPANISH LITERATURE I (3) Special attention to the literary movement called "The Generation of '98." Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.442 (82.442) TWENTIETH CENTURY SPANISH LITERATURE II (3) The writers of the last thirty years. Pre-

requisite: 1105.321-322 or equivalent. Conducted in Spanish.

- 1105.443 (82.443) TWENTIETH CENTURY SPANISH-AMERICAN LITERATURE I (3) Modernism to the Contemporary Period. Prerequisite: 1105.321-322. Conducted in Spanish.
- 1105.444 (82.444) TWENTIETH CENTURY SPANISH-AMERICAN LITERATURE II (3) The Contemporary Period. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.451 (82.451) SPANISH POETRY I (3) Special emphasis on Gustavo Adolfo Bécquer, Rubén Darío, Antonio Machado. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.452 (82.452) SPANISH POETRY II (3) Emphasis on the poets of the generation of 1927, Pablo Neruda, and Vicente Aleixandre. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.461 (82.461) SPANISH DRAMA I (3) Nineteenth and early twentieth century. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.462 (82.462) SPANISH DRAMA II (3) Contemporary playwrights such as Casona, Usigli, and Vallejo. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.471 (82.471) SPANISH NOVEL I (3) Emphasis will be given to Benito Pérez Galdós and Pío Baroja. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.472 (82.472) SPANISH NOVEL II (3) Emphasis on contemporary writers including: Camilo José Cela, Miguel Ángel Asturias, Ramón Sender, Juan Goytisolo. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.481 (82.481) SPANISH SHORT STORY (3) The short story in Spain and Spanish America with emphasis on twentieth century authors. Prerequisite: 1105.321-322 or equivalent. Conducted in Spanish.
- 1105.491 (82.491) DIRECTED READING IN SPANISH LITERATURE (3) Reserved for superior students under the guidance of a departmental advisor. Prerequisites: At least three hours of literature study at the 400 level, consent of department chairperson. Conducted in Spanish.
- 1105.492 (82.492) DIRECTED READING IN SPANISH (3) Similar to Span 491 with concentration on a different subject matter. Prerequisites: At least three hours of literature study at the 400 level, consent of department chairperson. Conducted in Spanish.

## Graduate Division

- 1105.503 (82.503) HISTORY OF THE SPANISH LANGUAGE (3) Survey of the development of the Spanish language from its origins to present day in Spain and in Spanish-America. Prerequisite: Undergraduate degree in Spanish.
- 1105.505 (82.505) SPANISH STYLISTICS (3) Intensive and detailed analysis of selected texts. Discussion and oral reports. Required weekly compositions. Prerequisite: Undergraduate degree in Spanish.
- 1105.521 (82.521) SEMINAR IN MIGUEL DE UNAMUNO (3) Life's tragedy: conflict between reason and faith as shown in his novels, theatre, essays, and poetry. Prerequisite: B.A. or 18 hours credit of Spanish beyond intermediate or permission of the instructor. Conducted in Spanish.
- 1105.531 (82.531) SEMINAR ON BENITO PEREZ GALDOS (3) His vision of the condition of man in XIXth-Century

Spain and his effort to improve society by changing individual behavior. Prerequisite: B.A. degree in Spanish. Conducted in Spanish.

1105.535 (82.535) SPANISH LITERATURE OF THE MIDDLE AGES (3) Reading, discussion and analysis of early Spanish literature. Prerequisite: Undergraduate degree in Spanish.

1105.536 (82.536) POETRY & DRAMA OF THE SPANISH GOLDEN AGE (3) Study of major writers of the Siglo de Oro, with shifting emphasis from year to year. Prerequisite: B.A. degree in Spanish. Conducted in Spanish.

1105.539 (82.539) CRITICAL APPROACHES TO SPANISH LITERATURE (3) Study and analysis of the formal as-

pects of selected Spanish literary texts. Prerequisite: Undergraduate degree in Spanish.

1105.541 (82.541) SEMINAR IN RAMON DEL VALLE-INCLAN (3) Analysis and discussion of the works of Ramón del Valle-Inclán. Prerequisite: Undergraduate degree in Spanish.

1105.551 (82.551) SEMINAR IN PIO BAROJA (3) Analysis and discussion of the works of Pio Baroja. Prerequisite: Undergraduate degree in Spanish.

1105.553 (82.553) MIGUEL DE CERVANTES (3) *Don Quijote de la Mancha* and the *Novelas Ejemplares*, reading and detailed analysis. Prerequisite: Undergraduate degree in Spanish.



# Music

**Professors:** ALPER, ARRINGTON (*Chairperson*), MYERS, DRUCKER

**Associate Professors:** COULANGE, DURO, GRISWOLD, MARCHAND, RAUSCHENBERG, REYES, CYR

**Assistant Professors:** CRAWFORD, LAWRENCE, LEVY, MELICK, MERANI, MOORE, RICHARDSON, TAN, TERWILIGER, ANTHONY

**Instructors:** BLAKE, HOFFMAN, JEZIC, MINGER, PALANKER, PHILLIPS, FRANKEL, CHESTER, BARNES, WATTS, BRISCUSO, DAY, HAYES, OSTRYNIC, AYESTAS, DECKER, RIGGLE

For the non-major, or general student, the purposes are to give opportunities for enrichment of cultural background and creative expression; for the music major, the purposes are to give professional training so that he/she will attain a high standard of artistic performance, be prepared to teach, and be qualified in his chosen field. Ample opportunity is given for student participation in musical organizations and ensembles which provides both valuable experience, and contributes to the cultural life of the College and the community.

Non-Majors may elect any music course for which they have the prerequisites. Participation in musical organizations is open to all interested students. There is an additional fee for private lessons and registration for same must be made with the consent of the Music Department Chairman.

## Music Major

Students wishing to major in music or music education should write to the Chairman of the Music Department at the time they make application to Towson State College through the Director of Admissions.

A placement examination in performance and music theory will be given prospective applicants on the third Saturday in May preceding their college admission. The purpose of this examination is to aid the Music Department in determining the most satisfactory curriculum pattern for the individual student.

Students who do not satisfactorily pass the audition and/or the theory placement examination will either be accepted on a probationary basis or their applications will be rejected as music majors.

Each music major is required to choose a primary instrument or voice, and study with teachers provided by Towson State College. Every music major enrolled in private lessons will perform before a faculty jury at the end of each semester of private study.

Every Music Major (except the BA in Music Literature or Music Theory) will perform a senior recital on his/her primary performing medium as a requirement for graduation. Senior Recital may not be given during same semester as student teaching. Every music major will take a piano proficiency examination at the end of the sophomore year. Students may repeat the examination until satisfactory completion which must be done before student teaching and/or graduation. Instrumental Majors may meet the piano proficiency requirement by satisfactorily completing two semesters of class piano with a minimum grade of B. Requirements may be procured in the Music Department office.

Each music major is required to participate in music ensembles as listed below:

The academic program in music will be determined on an individual basis for each transfer student based upon transcript evaluation, placement examination, and audition by the Music Department.

The Department of Music offers the following two courses of study:

1. A course of study preparing students to teach music as specialists, leading to a Bachelor of Science Degree in Music Education.

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that these are in addition to the General College Requirements.

## BACHELORS DEGREE . . . MUSIC EDUCATION

*Vocal, General Music*

### Requirements

Major — Total 83

1005.102	Music Literature for Majors	(3)_____
1005.131, 132	Music Theory I, II	(8)_____
1005.221, 222	Voice Class (Piano and Guitar Majors only)	(2)_____
1005.243	Recorder Class or 1005.211, 215, 219, 220	(1)_____
1005.231, 232	Music Theory III, IV	(8)_____
1005.301, 302	History of Music I, II	(6)_____
0832.307	Teaching Music in the Elementary School	(3)_____
0832.309	Methods of Teaching Choral & General Music in the Secondary School	(3)_____
1005.327	Choral Conducting	(3)_____
1005.335	Choral & Instrumental Arranging	(3)_____
0832.408	Organization & Administration of Music Education	(3)_____
1005.435	Form & Analysis	(3)_____
1005.499	Senior Recital	(1)_____
0803.319	Survey of Education	(3)_____
2001.201	Educational Psychology	(3)_____
0803.401	Foundations of Education	(3)_____
0802.497	Elementary Student Teaching	(6)_____
0803.398	Secondary Student Teaching	(6)_____

*Instrumental Music*

### Requirements

Major — Total 87

1005.102	Music Literature for Majors	(3)_____
1005.131, 132	Music Theory I, II	(8)_____
1005.211, 212	Brass Class (Brass Majors take only 212)	(2)_____
1005.215, 216	Percussion Class (not required of Percussion Majors)	(2)_____
1005.219, 220	String Class	(2)_____
1005.221	Voice Class	(1)_____
1005.223, 224	Woodwind Class	(2)_____
1005.231, 232	Music Theory III, IV	(8)_____
1005.236	Percussion Workshop (Percussion Majors only)	(1)_____
105.301, 302	History of Music I, II	(6)_____

0832.307	Teaching Music in the Elementary School	(3)_____
0832.309	Methods of Teaching Instrumental Music	(3)_____
1005.329	Instrumental Conducting	(3)_____
1005.335	Choral & Instrumental Arranging	(3)_____
0832.408	Organization & Administration of Music Education	(3)_____
1005.435	Form & Analysis	(3)_____
1005.499	Senior Recital	(1)_____
0803.319	Survey of Education	(3)_____
2001.201	Educational Psychology	(3)_____
0803.401	Foundations of Education	(3)_____
0802.497	Elementary Student Teaching	(6)_____
0803.398	Secondary Student Teaching	(6)_____

Minimum 7 credit Private Instruction in preparation for Senior Recital on primary performing medium.

Music Organizations 6 Semesters required:

#### Vocal — General Music

1005.263-266	Men or Women's Chorus
1005.259-260	Community Chorus
1005.261-262	Concert Choir

#### Instrumental

1005.269-268	Orchestra
1005.269-270	Band

2. A course of study in the field of arts and sciences leading to a Bachelor of Arts degree with emphasis in performance, music theory, or music literature. The Bachelor of Arts degree in music is a program designed for the study of music within a liberal arts curriculum with a broad coverage of the field. The burden of study should be upon the literature of music designed to develop basic musicianship, the ability to perform the literature well, and provide a set of principles and terms that lead to a fuller intellectual grasp of the art. It means to give an appropriate background for prospective candidates for advanced degrees who are preparing for such careers as musicology, composing, and performance.

## BACHELORS DEGREE . . . B.A.

Foreign Language Requirement: Complete intermediate or equivalent.

#### Performance

#### Requirements

Major — Total 72

Private lessons	(16)_____
1005.102 Music Literature for Majors	(3)_____
1005.131-132 Music Theory I, II	(8)_____
1005.231-232 Music Theory III, IV	(8)_____
1005.327 Conducting or 329	(3)_____
1005.406 Survey of Solo Voice Literature (or Advanced Music History Course)	(3)_____
1005.499 Senior Recital	(1)_____
1005.435 Form & Analysis	(3)_____

Music Electives — 15 credits

Select from following:

1005.401 Music Before 1600	(3)_____
1005.402 Baroque Music	(3)_____
1005.403 Music of the Classical Period	(3)_____
1005.404 Music of the Romantic Period	(3)_____

1005.405 Contemporary Music	(3)_____
1005.407 Counterpoint	(3)_____
1005.411 Survey of Opera	(3)_____
1005.413 Symphonic Literature	(3)_____
1005.421 American Music	(3)_____
1005.423 History of Jazz	(3)_____
1005.427-428 Jazz Arranging I, II	(3)_____
1005.429-430 Jazz Improvisation I, II	(3)_____
1005.431 Advanced Choral & Instrumental Arranging	(3)_____
1005.433 Advanced Theory	(3)_____
Music Organization	(12)_____

#### Music Literature

#### Requirements

Major — Total 71

Private lessons	(8)_____
1005.102 Music Literature for Majors	(3)_____
1005.131-132 Music Theory I, II	(8)_____
1005.231-232 Music Theory III, IV	(8)_____
1005.335 Choral & Instrumental Arranging	(3)_____
1005.407 Counterpoint	(3)_____
1005.435 Form & Analysis	(3)_____
1005.493 Independent Research in Music Literature	(3)_____

Music Electives — 15 credits

Chosen from following:

1005.401 Music Before 1600	(3)_____
1005.402 Baroque Music	(3)_____
1005.403 Music of the Classical Period	(3)_____
1005.404 Music of the Romantic Period	(3)_____
1005.405 Contemporary Music	(3)_____
1005.411 Survey of Opera	(3)_____
1005.413 Symphonic Literature	(3)_____
1005.421 American Music	(3)_____
1005.423 History of Jazz	(3)_____

Music Electives — 9 credits

From above or the following:

1005.327-329 Conducting	(3)_____
1005.406 Survey of Solo Voice Literature	(3)_____
1005.427-428 Jazz Arranging I, II	(3)_____
1005.429-430 Jazz Improvisation I, II	(3)_____
1005.431 Advanced Choral & Instrumental Arranging	(3)_____
1005.433 Advanced Theory	(3)_____
Music Organization — one each semester	(8)_____

## MUSIC THEORY

#### Requirements

General — Total 44

Major — Total 78

Private lessons	(8)_____
1005.102 Music Literature for Majors	(3)_____
1005.131, 132 Music Theory I, II	(8)_____
1005.221 Voice Class	(1)_____
1005.231-232 Music Theory III, IV	(8)_____
1005.301-302 Music History I, II	(6)_____
1005.327 Conducting or 329	(3)_____

1005.335 Choral & Instrumental Arranging	(3) _____
1005.387-388 Composition	(4) _____
1005.487-488 Composition	(4) _____
1005.407 Counterpoint	(3) _____
1005.431 Advanced Arranging	(3) _____
1005.435 Form & Analysis	(3) _____

Music Organization — one each semester (8) \_\_\_\_\_

Music Electives — 9 credits

_____	(3) _____
_____	(3) _____
_____	(3) _____

Final Project required: (Choose one)

- 1) Original compositions performed on Student or Faculty Recital.
- 2) Senior Thesis on approved topic.

All performance (except guitar and keyboard majors), majors are required to participate and be enrolled in six semesters of the Group A Ensembles and six semesters of the Group B ensembles listed below: All Music Theory and Music Literature majors must be enrolled in one Group A ensemble each semester. GROUP A ENSEMBLES: (Instrumental) Concert Band, Orchestra, Wind Ensemble, Jazz Ensemble. (Vocal) Concert Choir, Men's Glee Club, Women's Chorus, Community Chorus. GROUP B ENSEMBLES: (Instrumental) Brass Ensemble, Clarinet Choir, Early Music Ensemble, Flute Ensemble, Percussion Ensemble, Saxophone Ensemble, String Ensemble, Woodwind Ensemble. (Vocal) Early Music Ensemble, Madrigals, Octet, Opera Workshop. Two semesters of Group A may be substituted for two of the semesters in Group B at the option of student.)

Guitar performance majors are required to participate in eight semesters of Group A Ensembles which also includes Guitar Ensemble. Piano and Organ performance majors are required to participate in eight semesters of ensemble, six of which must be "Ensemble Accompanying."

Music education majors are required to participate in six semesters of music ensembles as follows:

Instrumental majors: Band or Orchestra

Vocal majors: Concert Choir, Community Chorus, Women's Chorus, Men's Glee Club

## MUSIC COURSES

**(MUSIC = 1005; MUSIC APPLIED = 1004;  
MUSIC EDUCATION = 0832)**

Lower Division — Undergraduate

1005.101 [54.101] INTRODUCTION TO MUSIC LITERATURE  
(3) Music literature to acquaint the student with music through class discussions and listening. Suggested course for the General Education requirement.

1005.102 [54.102] MUSIC LITERATURE FOR MUSIC MAJORS  
(3) Introduction to the great musical works of the Western world primarily through listening, class discussion, and study of scores. Required of all Music Majors. Prerequisite: Music Major.

1005.103 [54.103] INTRODUCTION TO TWENTIETH CENTURY MUSIC (3) A study of art music composed since 1900 through class discussions and listening. Suggested course for the general education requirements.

1005.111-112 [54.111-112] WIND ENSEMBLE (1,1) Study and performance of advanced wind literature by a small band of selected instrumentalists. Audition required.

1005.131-132 [54.131-132] MUSIC THEORY I AND II (4,4) The study and practice of sight singing, ear training and harmony in integrated course. Prerequisite for Theory I: Ability to read treble and bass clefs and knowledge of major and minor scales. Prerequisite for Theory II: Theory I.

1005.139-140 [54.139-140] GUITAR ENSEMBLE (1,1) Study and performance of guitar ensemble music. Required of all Guitar majors. May be repeated with credit. Audition required.

1005.141-142 [54.141-142] BRASS ENSEMBLE (1,1) Study and performance of advanced brass literature, required of all students majoring in brass instruments. May be repeated with credit. Audition required.

1005.145-146 [54.145-146] PERCUSSION ENSEMBLE (1,1) Study and performance of advanced percussion literature; supplement and improve the percussion student's musical training by acquainting the student with the various techniques involved in performing on the numerous percussion instruments. Required of all percussion majors. Admission by permission of the director. May be repeated with credit.

1005.149-150 [54.149-150] STRING ENSEMBLE (1,1) Study and performance of advanced string literature, required of all students majoring in string instruments. Admission by permission of the director. May be repeated with credit.

1005.151-152 [54.151-152] VOICE ENSEMBLE (1,1) Small group study and performance of advanced choral literature. Admission by permission of the director. May be repeated with credit.

1005.153-154 [54.153-154] WOODWIND ENSEMBLE (1,1) Study and performance of advanced woodwind literature required of all students majoring in woodwind instruments, by permission of the director. May be repeated with credit.

1005.155-156 [54.155-156] CLARINET CHOIR (1,1) Study and performance of clarinet choir literature. Open to all students by audition. May be repeated with credit.

1005.157-158 [54.157-158] JAZZ ENSEMBLE (1,1) Study and performance of music of the jazz idiom. Open to all students by audition. May be repeated with credit.

1004.171-172 [54.171-172] BRASS PRIVATE LESSONS (1-3) Private lessons in brass. Fee of \$50.00 per semester per credit. One half-hour private lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.

1004.173-174 [54.173-174] ORGAN PRIVATE LESSONS (1-3) Private lessons in organ. Fee of \$50.00 per semester per credit. One half-hour private lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.

1004.175-176 [54.175-176] PERCUSSION PRIVATE LESSONS (1-3) Private lessons in percussion. Fee of \$50.00 per semester. One half-hour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.

1004.177-178 [54.177-178] PIANO PRIVATE LESSONS (1-3) Private lessons in piano. Fee of \$50.00 per semester per credit. One half-hour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.

1004.179-180 [54.179-180] STRING PRIVATE LESSONS (1-3) Private lessons in strings. Fee of \$50.00 per semester per credit. One half-hour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.

- 1004.181-182 (54.181-182) VOICE PRIVATE LESSONS (1-3) Private lessons in voice. Fee of \$50.00 per semester per credit. One half-hour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 1004.183-184 (54.183-184) WOODWIND PRIVATE LESSONS (1-3) Private lessons in woodwinds. Fee of \$50.00 per semester per credit. One half-hour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 1004.185-186 (54.185-186) GUITAR PRIVATE LESSONS (1-3) Private lessons in guitar. Fee of \$50.00 per semester per credit. One half-hour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 1004.187-188 (54.187-188) COMPOSITION PRIVATE LESSONS (1-3) Private lessons in composition. Fee of \$50.00 per semester. One half-hour private lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 1005.201 (54.201) OPERA WORKSHOP (2) Basic techniques of stage movement and related aspects of opera production. Musical and dramatic preparation of operatic scenes and roles. Participation in operatic performances. Can be retaken for a maximum of four credits. Prerequisite: Permission of instructor.
- 1005.211-212 (54.211-212) BRASS CLASS (1,1) Class instruction in brass instruments.
- 1005.215-216 (54.215-216) PERCUSSION CLASS (1,1) Class instruction percussion instruments.
- 1005.217-218 (54.217-218) PIANO CLASS (1,1) Class instruction in piano playing, with one hour daily practice in preparation required. Open to beginning students and students with a minimum of piano work, by permission of the department chairperson.
- 1005.219-220 (54.219-220) STRING CLASS (1,1) Class instruction in string instruments.
- 1005.221-222 (54.221-222) VOICE CLASS (1,1) Class instruction in singing, with emphasis upon basic singing techniques and voice production through the use of song material.
- 1005.223-224 (54.223-224) WOODWIND CLASS (1,1) Class instruction in woodwind instruments.
- 1005.225-226 (54.225-226) GUITAR CLASS (1,1) Class instruction in guitar.
- 1005.229 (54.229) CONDUCTING LABORATORY ENSEMBLE (1) Study and performance of ensemble music from elementary through secondary school levels. Provides performance experience for students on secondary instruments. Also provides conducting experience for students enrolled in Conducting Class. Music education majors required to take two semesters. Prerequisite: 1005.211 or 1005.219 or 1005.223 or 1005.215 or equivalent.
- 1005.231-232 (54.231-232) MUSIC THEORY III AND IV (4,4) The study and practice of sight singing, ear training, and harmony in an integrated course. Prerequisite for Theory III: Theory II. Prerequisite for Theory IV: Theory III.
- 0832.233 (54.233) MUSIC FUNDAMENTALS (2) Basic music skills and experience in the use of music instruments for prospective kindergarten and elementary teachers.
- 1005.236 (54.236) PERCUSSION WORKSHOP (1) Covers performance concepts and teaching concepts on all percussion instruments; class type lessons on auxiliary percussion; learning to maintain and repair mallets and instruments; learning to "custom make" beaters, holders, etc.; learning to write for percussion; rehearsing and conducting percussion solo and ensemble literature. Prerequisite: Open only to percussion majors in Music.
- 1005.243 (54.243) RECORDER CLASS (1) Studying and performing works written particularly for the recorder. This course cannot be used towards fulfillment of the College's General Education Requirements. Prerequisite: Ability to read music.
- 1005.257-258 (54.257-258) PEP BAND (1,1) Wind ensemble which performs at various college functions such as athletic events, assemblies, etc. Prerequisite: Consent of instructor. May be repeated for credit.
- 1005.259-260 (54.259-260) COMMUNITY CHORUS (1,1) Study and performance of advanced choral literature. Admission by permission of the director. May be repeated with credit.
- 1005.261-262 (54.261-262) CONCERT CHOIR (1,1) Study and performance of advanced choral literature. Open to all students with audition. May be repeated with credit.
- 1005.263-264 (54.263-264) MEN'S GLEE CLUB (1,1) Study and performance of choral literature written and arranged for male voices. Open to all male students by permission of director. May be repeated with credit.
- 1005.265-266 (54.265-266) WOMEN'S CHORUS (1,1) Study and performance of choral literature for female voices. Open to all females students by permission of director. May be repeated with credit.
- 1005.267-268 (54.267-268) ORCHESTRA (1,1) Study of orchestral literature. Open to all students by audition. May be repeated with credit.
- 1005.269-270 (54.269-270) CONCERT BAND (1,1) The Board provides opportunities to perform a wide variety of literature, and to utilize the organization as a laboratory for conducting experience and performing on a secondary instrument for qualified students. Audition required.
- 1004.271-288 (54.271-288) PRIVATE LESSONS (1-3) Refer to 171-188 for course description, fee and time.

## Upper Division — Undergraduate

- 1005.301-302 (54.301-302) HISTORY OF MUSIC I, II (3,3) Study of development of music in the western world through discussion, performance and recording. First semester includes music from the Greeks to the end of the Baroque period. Second semester traces the development of music from the Classic period to the present. Prerequisite: 1005.232.
- 0832.307 (54.307) TEACHING MUSIC IN THE ELEMENTARY SCHOOLS (2,3) Acquaints students with music programs in the elementary school through lecture, class discussion, and practice with children. Prerequisite: 0832.233.
- 0832.308 (54.308) METHODS OF TEACHING INSTRUMENTAL MUSIC (3) Methods and materials in the instruction of instrumental music, elementary through secondary. Prerequisite: To be taken with student teaching.
- 0832.309 (54.309) METHODS OF TEACHING CHORAL AND GENERAL MUSIC IN THE SECONDARY SCHOOL (3) Methods and materials in the instruction of a general music program for the non-performing student, and a choral program for the performing student. Prerequisite: Taken with student teaching.
- 1005.311-312 (54.311-312) ACCOMPANYING I, II (3,3) Study of vocal and instrumental accompanying with emphasis upon sight reading, transposition, and acquaintance with vocal and instrumental literature. Permission of instructor.
- 1005.327 (54.327) CHORAL CONDUCTING (3) Group instruction in basic conducting techniques and interpretation

with relation to choral organizations. Prerequisite: 1005.132 or permission of instructor.

1005.329 [54.329] INSTRUMENTAL CONDUCTING (3) Group instruction in basic conducting techniques and interpretation with relation to instrumental organizations. Prerequisite: 1005.132 or permission of instructor.

1005.335 [54.335] CHORAL AND INSTRUMENTAL ARRANGING (3) Composition and arranging techniques for voices and/or instruments. Prerequisite: 1005.232, equivalent, or permission of instructor.

1004.371-388 [54.371-388] PRIVATE LESSONS (1-3) Refer to MUSIC 171-188 for course description, fee and time.

## Upper Division — Undergraduate and Graduate

1005.401 [54.401] MUSIC PRIOR TO 1600 (3) The art of music in the West from its tentative beginnings in Greek and Hebrew music to the year 1600 A.D. Prerequisite: Consent of Department Chairperson.

1005.402 [54.402] MUSIC OF THE BAROQUE PERIOD (3) Style, forms and musical techniques from 1600 to 1750. Prerequisite: Consent of Department Chairperson.

1005.403 [54.403] MUSIC OF THE CLASSICAL PERIOD (3) Styles, forms and techniques of the period from 1750-1820. Particular emphasis is placed on instrumental categories of the string quartet, sonata, symphony and concerto as illustrated in the works of Haydn, Mozart and Beethoven. Attention is given to operatic and sacred compositions of the same masters. Prerequisite: Consent of Department Chairperson.

1005.404 [54.404] MUSIC OF THE ROMANTIC PERIOD (3) Musical styles, forms and techniques in the 19th century with special attention to the intellectual foundations of the Romantic movement. Prerequisite: Consent of Department Chairperson.

1005.405 [54.405] CONTEMPORARY MUSIC (3) Styles, forms and musical techniques since 1900. Prerequisite: Consent of Department Chairperson.

1005.406 [54.406] SURVEY OF SOLO VOICE LITERATURE (3) A musical survey of the solo art-song form circa 1750 to the present. Prerequisite: 1005.232 or consent of instructor.

1005.407 [54.407] COUNTERPOINT (3) A study of the polyphonic practices employed in 18th century tonal counterpoint. Prerequisite: 1005.232.

0832.408 [54.408] ORGANIZATION AND ADMINISTRATION OF MUSIC EDUCATION (3) Seminar discussion of the problems of organization and administration of music education. Prerequisite: Music Student Teaching or consent of the instructor.

1005.411 [54.411] SURVEY OF OPERA (3) Study of opera literature of various periods and styles. Consent of Department Chairperson.

1005.412 [54.412] WIND ENSEMBLE (1) Study and performance of advanced wind literature by a small band of selected instrumentalists. Audition required. Prerequisites: Audition and permission of instructor.

1005.413 [54.413] SYMPHONIC LITERATURE (3) Orchestral music from the baroque to the present. The concerto, symphony, overture and other orchestral forms are examined. Prerequisite: Consent of Department Chairperson.

0832.419 [54.419] WORKSHOP: ASPECTS OF STRING TEACHING (2) An extension course to be offered in the Maryland Regional Center for the Arts near Emmittsburg, Md. A series of lectures, concerts, and rehearsals designed to enrich the experience of the string teacher and those interested in teaching strings in the public schools. Stu-

dents will be offered either forty-five contact hours or thirty hours and an individual project. Sessions will be either one or two weeks in length. Prerequisite: Fulfillment of all requirements for teacher certification in instrumental music before taking course.

1005.421 [54.421] AMERICAN MUSIC (3) American music from the Colonial Period to the present. Prerequisite: Consent of Department Chairperson.

1005.423 [54.423] HISTORY OF JAZZ (3) Development of jazz and its peripheral effects upon music.

1005.424 [54.424] ADVANCED WOODWINDS (Double Reeds) (3) Study of advanced techniques on bassoon and oboe. Special emphasis given to reed-making and instrument repair. Prerequisite: 1005.223, or consent of instructor.

1005.427-428 [54.427-428] JAZZ ARRANGING I, II (3, 3) Study and practice of arranging of standard material for Jazz Ensembles. Prerequisite: 1005.232 or consent of instructor.

1005.429-430 [54.429-430] JAZZ IMPROVISATION I, II (3, 3) Study and practice of improvising in various jazz styles. Prerequisite: 1005.231-232 or consent of instructor.

1005.431 [54.431] ADVANCED CHORAL AND INSTRUMENTAL ARRANGING (3) Advanced arranging techniques including the scoring of original and other works for various combinations of instruments and/or voices. Prerequisite: 1005.335, or equivalent, or consent of instructor.

1005.433 [54.433] ADVANCED THEORY (3) Continued development of skills in more advanced melodic, harmonic and rhythmic aspects of music through hearing, playing and writing. Prerequisite: 1005.232.

1005.435 [54.435] FORM AND ANALYSIS (3) Analysis of vocal and instrumental literature. Prerequisites: 1005.232.

1005.449-450 [54.449-450] STRING ENSEMBLE (1, 1) Study and performance of advanced string literature, required of all students majoring in string instruments. Admission by permission of director. May be repeated with credit.

1005.459-460 [54.459-460] COMMUNITY CHORUS (1, 1) Study and performance of advanced choral literature. May be repeated with credit.

1005.467-468 [54.467-468] ORCHESTRA (1, 1) Study of orchestral literature. Open to all students by audition. May be repeated with credit.

1005.469-470 [54.469-470] CONCERT BAND (1, 1) Study and performance of band literature. Open to all students by audition. May be repeated with credit.

1004.471-488 [54.471-488] PRIVATE LESSONS (1-3) Refer to MUSIC 171-188 for course description, fee and time.

1005.493 [54.493] INDEPENDENT RESEARCH IN MUSIC LITERATURE (1-4 credits undergraduate; 3 credits graduate) Supervised research and musicological investigation of a selected topic culminating in a written senior thesis. May be repeated with credit. Prerequisites: 1005.301, 1005.302, and six hours of Advanced Music Hist. courses.

1005.499 [54.499] SENIOR RECITAL (1) Recital performance for graduation requirement. Prerequisites: Minimum of 6 credits of Private Lessons and approval of Department Chairperson. Undergraduate credit only.

## Graduate Division

0832.501 [54.501] CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION (3) A survey of current philosophies and objectives of music in the schools, and the scope and sequence of the music curricula, vocal and instrumental, on the elementary and secondary levels. Prerequisite: Admission to Graduate Program.

1005.515 (54.515) THE CONCERTO (3) A survey of the concerto form from its inception to the present. Analysis of stylistic, formal, and compositional aspects will be included. Prerequisite: Admission to Graduate standing with Music Major, or Consent of Department Chairperson.

1005.539 (54.539) MUSIC COMPOSITION (3) Analysis and discussion of works of major composers. Writing of original compositions in vocal and instrumental idioms. Prerequisites: 1005.232, 1005.335, 1005.435.

1005.561 (54.561) SEMINAR IN INSTRUMENTAL MUSIC (3) Comparative analysis of current methods and materials used in schools and colleges. Instrumental conducting and repertoire. Construction of acoustical properties and basic techniques of instruments. Problems of ensemble and balance. Intonation, precision and interpretation are studied. Materials and music literature for bands, orchestras and small ensembles are evaluated. Prerequisite: Admission to the Graduate Program.

1005.562 (54.562) SEMINAR IN CHORAL (VOCAL) MUSIC (3) Comparative analysis of current methods and materials

used in schools and colleges. Choral conducting and repertoire. Style, interpretation, tone quality, diction, rehearsal and conducting techniques are analyzed. Prerequisite: Admission to the Graduate Program.

1004.571-588 (54.571-588) PRIVATE LESSONS (1-3) Refer to MUSIC 171-188 for course description, fee and time.

1005.595 (54.595) RESEARCH METHODS IN MUSIC AND MUSIC EDUCATION (3) The application of methods of research to problems in the field of music and music education, the preparation of bibliographies and specialized techniques for the location, collection, and treatment of data. The written exposition of research projects in the area of the student's major interest. Prerequisite: Admission to the Graduate Program.

1005.697 (54.697) THESIS PROJECT (3) Thesis Project includes: Graduate recital or musical composition in lieu of thesis. Prerequisite: Approval of Music Department Graduate Committee.

1005.699 (54.699) THESIS (3)





# Nursing

*Associate Professor:* SCHWALM

*Assistant Professors:* BURCH (Chairperson), COX, DAVIES,  
HARRELL, KEENEN, MIDKIFF, MOLICK, MOSLEY,  
SCHROEDER, WILEY

*Instructor:* LEE

In response to community needs for professional nurses in health care delivery, a baccalaureate program in professional nursing leading to the Bachelor of Science Degree has been initiated at Towson State. Development of the curriculum in the Nursing major was begun in September 1970 with the acceptance of the first group of students in February 1972. The curriculum is designed to meet the changing conceptual role of nursing as it evolves from the health needs of society—

THAT of using a unique core of knowledge and actions to assist individuals, families and groups in various stages of the life cycle and in varied environmental settings to maximize their highest level of wellness;

THAT of preparing citizens who value thought and involvement.

Therefore, courses in the Nursing major are designed around the episodic-distributive\* nursing care concept.

Attainment of the curriculum's objectives is accomplished through course study in the liberal arts, the sciences and Nursing. The completion of the general course offerings required of all students of the College — plus selected academic and professional courses — requires four academic years (full-time enrollment in the Upper Division is required in the Nursing major). As an integral part of each Nursing course, the learning process is extended from the College to a variety of health agencies in the greater Baltimore area.

## General

Enrollment at the high school level in the following courses is strongly recommended to provide the foundation base for the Nursing major: mathematics — 3 units (including two years of algebra); chemistry — 1 unit; biology — 1 unit; physics — 1 unit.

Before a student can be considered for admission to study in the Department of Nursing, he or she must be admitted to the College. However, admission to the College alone does not constitute or guarantee admission to the Nursing major.

All students wishing to pursue the Nursing major must contact the Department of Nursing at the time of application for admission to the College to complete the required "Pre-Nursing Student Information" form. The absolute deadline for filing this form for students enrolled at Towson is May 15th preceding matriculation in the major (enrollment in 1203.221 — Introduction to Professional Nursing Practice); students transferring into Towson the same semester they plan to enroll in the first Nursing offering (1203.221) must submit the completed form by the previous October 15th.

Admission to the Department of Nursing is made only by the Departmental Faculty based on the "Criteria for the Selection of Nursing Majors." Copies of the Criteria are available from the Nursing office. Due to our Department's limited enrollment policy, all students are strongly urged not only to establish themselves early with the Nursing Department but to obtain and be familiar with the Criteria for Selection of Nursing Majors.

Because of existing problems in securing a sufficient number of Faculty to meet the demands of classroom and clinical instruction and a limited number of available health facilities in which to provide clinical learning opportunities for all students enrolled in the Nursing major, only fifty (50) students will be accepted to study in the Nursing major each year.

BECAUSE OF THE LIMITED CLASS SIZE, STUDENTS ARE ADVISED TO SEEK ALTERNATIVE ENROLLMENT OPPORTUNITIES IN OTHER FOUR-YEAR NURSING PROGRAMS (List available in Department office).

## Transfer and Second Degree Students

These students must obtain the Department's "Guidelines for Transfer and Second Degree Students," in addition to filing the required "Pre-Nursing Student Information" form.

## Registered Nurses

Currently, the Department of Nursing is unable to offer R.N.'s seeking a baccalaureate degree an opportunity for study in Nursing courses, as challenge opportunities for academic credit for previous nursing education and experience are not available at the College. However, departmental faculty will be happy to advise R.N.'s concerning lower division requirements should they wish to pursue study in non-nursing courses on either a full- or part-time basis at the College.

## Academic Standards

In order to remain in and graduate from the Nursing major, students are required to maintain a grade of "C" (2.0) or better in each Nursing course (in addition to attaining the cumulative grade point average required by the College).

## Program Approval

The Nursing Program is approved by the Maryland State Board of Examiners of Nurses and accredited by the National League for Nursing. Students graduating from the Nursing major are eligible to write the State Board Examination for licensure as a Registered Nurse in the State of Maryland.

## Financial Aid and Special Obligations

Federal Nursing Student Grant and Loan Funds and other sources of assistance are available to eligible students. Information may be obtained from the College's Office of Financial Aid.

Students in the Nursing major are expected to:

- carry nursing student liability insurance through the insurance company selected by Departmental Faculty (approximately \$12. annually);
- carry hospitalization insurance including accident and/or emergency benefits;
- purchase appropriate clinical attire initially selected by students in the Nursing major and Departmental Faculty (approximately \$250. for total program);
- provide own travel to and from clinical facilities (including the cost and method of transportation).

## COURSE REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN NURSING

The College requires a total of 120 credits "of 'C' work or better" for graduation. However, established Departmental requirements must also be completed for graduation with a Nursing major. This necessitates completion of approximately 130 credit hours for most students enrolled in the Department as follows:

### Lower Division

1501.102	Freshman Composition	(3) _____
0401.101	Contemporary General Biology	(4) _____
1905.105	"Chemistry for Allied Health Professions I"	(4) _____
1506.131	Fundamentals of Speech Comm.	(3) _____
0835.	Physical Education Elective	(1) _____
1701.115	Mathematics I	(3) _____
2001.101	General Psychology	(3) _____
1905.106	"Chemistry for Allied Health Professions I"	(4) _____
0401.113	Human Anatomy & Physiology I	(4) _____
2299.101	Introduction to Sociology	(3) _____
1501.	English Elective	(3) _____
2001.203	Human Growth and Development	(3) _____
0401.114	Human Anatomy & Physiology II	(4) _____
1201.204	Nutrition	(3) _____
2299.208	The Family	(3) _____
1203.221	Introduction to Professional Nursing Practicse	(4) _____

#### One of the following:

0401.315	Medical Microbiology	(4) _____
0401.318	Microbiology	(4) _____

\*Select one of the following courses from Group I of the General College Requirements:

Art, English, Modern Languages (the first semester of any elementary language course cannot be used), Music, Philosophy and Religion or Theatre Arts; an English elective can only be used to satisfy this requirement if the student has already successfully completed two additional English courses.

(3) \_\_\_\_\_

#Select two different courses of the following from Group III of the General College Requirements:

Anthropology, Economics, Geography, History or Political Science	(3) _____
	(3) _____

### Upper Division

1203.311	Distributive Care: Contemporary Family Health Care	(4) _____
1203.312	Episodic Care: Contemporary Family Health Care	(9) _____
1203.321	Distributive Care: Acute-Chronic Health Problems	(4) _____
1203.322	Episodic Care: Acute-Chronic Health Problems	(9) _____
1203.411	Distributive Care: Complex Community Health Problems	(4) _____
1203.412	Episodic Care: Complex Clinical Situations	(9) _____

2001.431	Group Dynamics	(3) _____
1203.423	Nursing Leadership	(9) _____
1701.237	Elementary Biostatistics	(4) _____

#### One of the following:

1203.421	Advanced Distributive Care	(4) _____
1203.422	Advanced Episodic Care	(4) _____

Select two of the following courses from Group I of the General College Requirements:

\*Art, English, Modern Language (the first semester of any elementary language course cannot be used), Music, Philosophy and Religion or Theatre Arts; an English elective can only be used if the student has already successfully completed two additional English courses

(3) \_\_\_\_\_

(3) \_\_\_\_\_

NOTE: Nursing courses must be completed in a sequential pattern as each course is foundational for the subsequent courses. AS THESE REQUIREMENTS MAY, FROM TIME TO TIME, BE REVISED, IT IS THE STUDENT'S RESPONSIBILITY TO MAKE CERTAIN THAT HE OR SHE IS WORKING WITH THE MOST CURRENT CURRICULUM OUTLINE.

\* The three courses selected from Group I must be from two different areas.

# Students may elect to take a combined total of 12 credits from these Group I and Group III courses under the College's Pass Option Plan.

## NURSING COURSES (1203)

### Lower Division — Undergraduate

1203.221 (55.221) INTRODUCTION TO PROFESSIONAL NURSING PRACTICE (4) This course concentrates on developing intellectual skill in the assessment, nursing intervention and instruction of health maintenance for man and society. Attention is given to selected forces which alter the well being of many followed by study and observation of man's adaptive behaviors to biological, psychosocial and environmental changes. Selected historical perspectives in nursing are included. Prerequisite: acceptance into Nursing major by Department Faculty.

### Upper Division — Undergraduate

1203.311 (55.311) DISTRIBUTIVE CARE: CONTEMPORARY FAMILY HEALTH CARE (4) This course concentrates on developing intellectual sensitivity to the changing developmental needs and conceptual role of the family and its members. Attention is given to the study and application of prevention and health maintenance concepts specific to each developmental stage from birth to young adulthood. Nursing practice takes place in a variety of environmental settings exclusive of hospital confinement. Prerequisite: 1203.221.

1203.312 (55.312) EPISODIC CARE: CONTEMPORARY FAMILY HEALTH CARE (9) Course emphasis is on the application of a defined scope of scientific knowledge and skill unique to curative and restorative nursing care of hospitalized patients from birth through young adulthood. This course is taken concurrently with the course 1203.311 to provide comprehensive study in applying nursing practice to the dynamic needs of persons of the aforementioned age groups in various environmental settings. Prerequisite: 1203.221.

1203.321 (55.321) DISTRIBUTIVE CARE: ACUTE-CHRONIC HEALTH PROBLEMS (4) This course concentrates on

developing keen intellectual sensitivity to the nurturing needs of individuals within society. Emphasis is on the prevention of acute-chronic diseases and the maintenance of health for people from young adulthood to senescence. Nursing practice is directed toward the continuous care of persons not confined to hospitals. Prerequisites: 1203.311 and 1203.312.

1203.322 (55.322) **EPISODIC CARE: ACUTE-CHRONIC HEALTH PROBLEMS** (9) Course emphasis is on the application of a defined scope of scientific knowledge and skill specific to curative and restorative nursing care of hospitalized patients with acute or chronic health problems. This course is taken concurrently with the course 1203.321 to provide comprehensive study in dynamic, progressive nurse-patient care in various hospital settings. Prerequisites: 1203.311 and 1203.312.

1203.411 (55.411) **DISTRIBUTIVE CARE: COMPLEX COMMUNITY HEALTH PROBLEMS** (4) This course offers study in the inter-relationship and application of nursing interventions specific to multi-faceted health problems within contemporary urban and suburban settings. Attention is given to the nurse as an interdisciplinary health team member who provides psycho-social, as well as physical care to individuals and families. Prerequisites: 1203.321 and 1203.322.

1203.412 (55.412) **EPISODIC CARE: COMPLEX CLINICAL SITUATIONS** (9) This course focuses on comprehensive knowledge of human behavior, technology and procedures. Concentration is judiciously applied to curative and restorative care of patients with complex health problems and confined to general or psychiatric health care institutions. Prerequisites: 1203.321 and 1203.322.

1203.421 (55.421) **ADVANCED DISTRIBUTIVE CARE** (4) This course offers further study and increased competence in nursing practice. Emphasis is on health maintenance and disease prevention for persons not confined to health care institutions. According to interest, the student selects the environmental setting and the particular individual-group health problems for independent study. Prerequisites: 1203.411 and 1203.412.

1203.422 (55.422) **ADVANCED EPISODIC CARE** (4) This course offers further study and increased competence in nursing practice. Emphasis is on curative and restoration care for hospitalized persons with acute-chronic physiologic and psychiatric problems. According to interest, the student selects the clinical setting and the particular in-

dividual-group problem for independent study. Prerequisites: 1203.411 and 1203.412.

1203.423 (55.423) **NURSING LEADERSHIP** (9) The focus of this course is on the study of cross-relationships between human relations and organizational effectiveness for the delivery of health care. Attention is given to leadership skills, professional ethics, legal boundaries, the economics of health services and citizenship. Prerequisites: 1203.411 and 1203.412.

**NOTE: DISTRIBUTIVE CARE** is the area of concentration in nursing practice which emphasizes that aspect essentially designed for health maintenance and disease prevention. This is generally continuous in nature, seldom acute and increasingly will take place in community or emergent institutional settings.\*

**EPISODIC CARE** is the area of concentration in nursing practice which emphasizes that aspect essentially curative and restorative, generally acute or chronic in nature, and most frequently provided in the setting of the hospital or in-patient facility.\*

\* National Commission for the Study of Nursing and Nursing Education, *An Abstract for Action* (New York: McGraw-Hill Book Company, 1970), pp. 91 and 92.

## ORIENTATION

Chairperson — DR. JAMES SPIVACK

The purpose of courses in the Orientation Department is to provide students with and refine interpersonal helping, tutorial, and program development skills. There is no major or minor available in this discipline; and students are limited in the number of credits from this discipline which may be applied toward the degree. See the chairperson for details.

## ORIENTATION COURSES (9500)

9500.301-302 (56.301-302) **TRAINING IN LEADERSHIP AND HUMAN RESOURCE SERVICES I, II** (2, 2) Development of skills for counseling the older adolescent. Second semester includes application of theory as student assumes leadership of a freshman orientation section. Both semesters must be completed to receive credit. Prerequisite: Student teaching or concurrently with student teaching and consent of instructor.



# Philosophy and Religion

Professors: EBERHARDT (Chairperson), MADDEN  
Associate Professors: deBRABANDER, FUCHS, HILL,  
MURUNGI  
Instructor: ROBERTSON

Courses offered by the Department are historical, systematic, analytic, or speculative, according to the nature of the course, the interests of the instructor, and the composition of the particular class. The attitude that informs all courses is scholarly or speculative, rather than sectarian or dogmatic.

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that these are in addition to the General College Requirements.

## BACHELORS DEGREE . . . PHILOSOPHY

### Requirements

Major — total — 30

Minor — total — 21

1509.203 Logic (3)

1509.341 Ethics (3)

Four of the Following:

1509.321 Pre-Socratic and Classical Greek Philosophy

1509.322 Late Classical and Medieval Philosophy

1509.323 Late Medieval and Renaissance Philosophy

1509.324 Modern Philosophy

1509.325 Schools of Contemporary Philosophy

1509.326 American Philosophy

Twelve credits of electives including at least six credits in the 440-449 or 470-479 series. Six credits may, with the permission of the Chairman, be taken in allied disciplines, e.g., history, mathematics, political theory, psychology, religion. In exceptional instances students may, with permission, make substitutions for required courses e.g., a higher numbered course may be substituted for a lower numbered course.

MINOR:

1509.203 Logic (3)

1509.341 Ethics (3)

Three of the Following:

1509.321 Pre-Socratic and Classical Greek Philosophy

1509.322 Late Classical and Medieval Philosophy

1509.323 Late Medieval and Renaissance Philosophy

1509.324 Modern Philosophy

1509.325 Schools of Contemporary Philosophy

Six credits of electives offered by the department.

## PHILOSOPHY COURSES (1509)

### Lower Division — Undergraduate

1509.101 (58.101) INTRODUCTION TO PHILOSOPHY (3) An introduction to some fundamental problems of philosophy and to various proposals for the solution of these problems.

1509.203 (58.203) LOGIC (3) Study of and practice in inductive and deductive reasoning, the composition of argument, and demonstration, and the detection of logical and non-logical fallacies.

1509.211 (58.211) THEORY OF KNOWLEDGE (3) An historical and systematic approach to the truth value and elements of the forms of human knowledge. The theories of major philosophers will be studied.

1509.270-279 (58.270-279) PHILOSOPHICAL PERSPECTIVES (3) The course will consider contemporary issues from the uniquely philosophical perspective to stimulate independent reflection on the part of the student.

### Upper Division — Undergraduate and Graduate

1509.301 (58.301) PHILOSOPHIES OF INDIA (3) Examination of some major philosophical systems through selected writings in translation. Prerequisite: One course in philosophy or consent of instructor.

1509.302 (58.302) PHILOSOPHIES OF CHINA AND JAPAN (3) Examination of some major philosophical systems through selected writings in translation. Prerequisite: One course in philosophy or consent of instructor.

1509.321 (58.321) PRE-SOCRATIC AND CLASSICAL GREEK PHILOSOPHY (3)

1509.322 (58.322) LATE CLASSICAL AND MEDIEVAL PHILOSOPHY (3) (Should not be attempted without having taken 1509.101 or 1509.321.)

1509.323 (58.323) LATE MEDIEVAL AND RENAISSANCE PHILOSOPHY (3) (Should not be attempted without having taken 1509.101 or 1509.321.)

1509.324 (58.324) MODERN PHILOSOPHY (3) The history of philosophy beginning with Descartes through the 19th century. (Should not be attempted without having taken 1509.101 or 1509.321.)

1509.325 (58.325) SCHOOLS OF CONTEMPORARY PHILOSOPHY (3) A survey with varying emphases on a number of such contemporary philosophical positions as pragmatism, phenomenology, logical positivism, the analysts, neo-Aristotelianism, the philosophers of science, and the existentialists. (Should not be attempted without having taken 1509.101 or 1509.321.)

1509.326 (58.326) AMERICAN PHILOSOPHY (3) A study of the main currents of American philosophical thought as exemplified in such writers as Edwards, Emerson, Pierce, James, Royce, Dewey and Whitehead. (Should not be attempted without having taken 1509.101 or 1509.321.)

1509.331 (58.331) CONCEPTS OF WOMAN: A HISTORICAL APPROACH (3) Various concepts which philosophers have used to define woman. A historical survey approach, with readings by Plato, Aquinas, and others, and ending with Beauvoir. Prerequisite: 1509.101 or 1509.321.

1509.341 (58.341) ETHICS (3) Analysis of reading from the principle classical and contemporary ethical sources; study of the basic moral concepts as found in these sources; application to contemporary moral concerns. Prerequisite: 1509.101 or consent of Department.

1509.343 (58.343) AESTHETICS (3) An analytic and historical examination of concepts of the nature of art, beauty, aesthetic value, aesthetic perception, and of the modes of existence of artifacts. Prerequisite: 1509.101 or consent of Department.

1509.354 (58.354) PHILOSOPHY OF BIBLICAL LITERATURE: OLD TESTAMENT (3) Major themes of the Biblical Literature, and of its religious, philosophical and cultural implications. Prerequisite: At least one lower division course in Philosophy, Religion or History.

- 1509.410 (58.410) CONTEMPORARY ETHICAL PROBLEMS (3) The course will treat the meaning of moral experience and the moral problems which arise in connection with human sexual integrity, ownership of property, welfare, violence, civil disobedience, punishment, war, and truth telling in social relations and government. Prerequisites: A previous course in philosophy or consent of instructor.
- 1509.421 (58.421) ARCHAEOLOGY OF PALESTINE AND TRANS-JORDANIA (3) A study using audio-visual aids of the aims, techniques and artifacts of biblical archaeology. Research exercises may require the use of museums, collections and libraries. Prerequisites: 1509.461 or, any introductory course in Geography, History, Philosophy or, Consent of Department Chairperson.
- 1509.431 (58.431) ETHICS OF MEDICINE AND THE LIFE SCIENCES (3) A search for guidelines in such moral problems as abortion, the care of the dying, organ transplants, informed consent in therapy and experimentation, adequate health care and its just distribution, control of human behavior by drugs, surgery, etc., test-tube reproduction, population control, genetic engineering and counseling. Prerequisite: A previous course in Philosophy or consent of instructor.
- 1509.440-449 (58.440-449) PHILOSOPHICAL SYSTEMS (3) The study of a major philosophical system or position, classical or modern, and of its important proponents. Prerequisites required: 1509.203, one other lower level course in philosophy, and consent of the Department Chairperson.
- 1509.451 (58.451) PHILOSOPHY OF RELIGION (3) Exposition of various approaches to the philosophy of religion with an analysis of the major issues on which they differ and agree. Prerequisite: 1509.101 or consent of Department Chairperson.
- 1509.454 (58.454) PHILOSOPHY OF BIBLICAL LITERATURE: NEW TESTAMENT (3) Major themes of the Biblical Literature, and of its religious, philosophical and cultural implications. Prerequisite: At least one lower division course in Philosophy, Religion or History.
- 1509.455 (58.455) HELLENISTIC ERA (3) Three significant phases of the preparation of the Mediterranean world for the Hebraic-Hellenic synthesis: (1) Judaism, (2) Hellenism,

and (3) the Roman conquest. Contribution of archaeology will be indicated. Prerequisite: At least one lower division course in Philosophy, Religion or History.

- 1509.457 (58.457) COMPARATIVE RELIGION I (3) Examination of Eastern religions, culture and life—Hinduism, Buddhism, Confucianism, Taoism, Shinto. Prerequisite: At least one lower division course in Philosophy, Religion or History.
- 1509.458 (58.458) COMPARATIVE RELIGION II (3) Examination of the religious life and culture of the Near East and Africa. Prerequisite: At least one lower division course in Philosophy, Religion or History.
- 1509.459 (58.459) PROTESTANT, CATHOLIC, JEW (3) Judaism and Christianity. A study of their biblical, historical and cultural sources. Prerequisite: At least one lower division course in Philosophy, Religion or History.
- 1509.461 (58.461) THE HISTORICAL GEOGRAPHY AND ARCHAEOLOGY OF PALESTINE (3) The course seeks to assess the role of geographical, archaeological, and historical disciplines (the provenance), used conjointly, in biblical interpretation. Prerequisite: Any introductory course in Geography, History or Philosophy or, Consent of Department Chairperson.
- 1509.463 (58.463) MODERN ATHEISM (3) The course in an attempt to interpret the meaning of this entirely new phenomenon in Western Civilization. It will deal with modern atheism in its various forms: scientific, psychoanalytic, existential and marxist atheism. Prerequisites: Any 2 philosophy courses and permission of the Department Chairperson.
- 1509.470-479 (58.470-479) PHILOSOPHICAL PROBLEMS (3) A consideration of one of the perennial interests of philosophy. Prerequisites required: 1509.203, one other lower level course in philosophy, and consent of the Department Chairperson.
- 1509.495 (58.495) RESEARCH TUTORIAL IN PHILOSOPHY (3) Directed readings and research leading to a thesis paper under one or more members of the Department. Prerequisite: Majors in Philosophy, or seniors with consent of Department Chairperson.



# Physical Education

Professors: BIZE, CONARD, EASON (Chairperson),  
MEINHARDT, SHEETS, ZEIGLER

Associate Professors: KILLIAN, MYRANT, SLEVIN,  
VERKRUZEN

Assistant Professors: ALBERT, ANGOTTI, BLANN,  
BOUCHER, BOUTON, BREAZEALE, FAULKNER, FIELD,  
FINCH, FORBES, HARRIS, KENNARD, McDONALD,  
McGINTY, RIORDON, RUNK, STINAR

Instructors: BRITT, DUNCAN, WALL, WALTER, WANLESS,  
YERKES

Assistant Instructors: DOBKIN, SHEKITKA

## PROGRAM FOR NON-MAJORS

### Service Division

The program of physical education is planned to provide the student with an opportunity to acquire the skills and understanding of selected physical activities. Emphasis is placed on the development of sufficient competence to promote satisfaction and enjoyment in sports and recreational activities. To meet the general course requirements of all students in Group IV, a minimum of one credit must be taken from 0835.011-0835.081. All courses admit men and women, but several are more specifically designated in the College Schedule Bulletin. Students with medically screened physical limitations may elect adapted physical education 0835.010. Activity courses may be taken each semester of the student's academic career.

### A partial list of course offerings follows:

0835.010	Adaptive Modified	(1.0) _____
0835.011	Archery	(0.5) _____
0835.013	Badminton	(0.5) _____
0835.016	Billiards	(0.5) _____
0835.017	Basketball	(0.5) _____
0835.019	Body Mechanics	(0.5) _____
0835.020	Bowling	(0.5) _____
0835.021	Conditioning	(0.5) _____
0835.023	Fencing	(0.5) _____
0835.025	Field Hockey	(0.5) _____
0835.027	Folk Dance	(0.5) _____
0835.031	Golf	(0.5) _____
0835.033	Gymnastics	(0.5) _____
0835.035	Handball	(0.5) _____
0835.045	Swimming I	(1.0) _____
0835.046	Swim II	(0.5) _____
0835.047	Swim III	(0.5) _____
0835.070	Water Polo	(0.5) _____
0835.051	Senior Life Saving	(1.0) _____
0835.052	Water Safety Instructor	(1.0) _____
0835.053	Tennis	(0.5) _____
0835.057	Volleyball	(0.5) _____
0835.061	Beginning Modern Dance I	(1.0) _____
0835.063	Beginning Ballet I	(1.0) _____
0835.065	Jazz Dance I	(1.0) _____
0835.069	Social Dance	(0.5) _____
0835.067	Self Defense	(0.5) _____
0835.071	Elementary Backpacking	(1.0) _____
0835.081	Rugby	(0.5) _____

Now major students may apply for credit by examination for prior experience or skill by contacting the re-

spective Chairperson for college and departmental procedures.

## Elementary Education — Physical Education Division

0835.101-102 (60.101-102) PHYSICAL EDUCATION FOR ELEMENTARY EDUCATION STUDENTS I, II (1. 1) The course is designed for the teacher of elementary school children to gain an understanding of and develop a basic ability in the basic skills of children's activities. The course provides opportunity to become familiar with methods of learning skills and to appreciate the needs of the individuals in motor learning and analysis of group behavior. Prerequisites to 0835.324.

0835.324 (60.324) Special sections of The Teaching of Physical Education in the Elementary School may be selected by students in the elementary education block program. The course is designed to give the student knowledge and practical experience in teaching the elementary child. Prerequisites: 0835.101-102.

## Program for Physical Education Majors

Students may select a major in physical education. The purpose of the major is to prepare competent teachers of physical education for the public schools of Maryland. Graduates are certified to teach at the elementary and secondary level. A planned sequence of courses is designed to provide the student with skills and leadership experiences needed to direct a balanced program in class, intramural and extramural activities, and varsity sports. All men physical education majors are requested to serve two semesters as a member of an intercollegiate team or serve an equivalent time in the athletic training or intramural programs.

## BACHELORS DEGREE — PHYSICAL EDUCATION

### Requirements

Major — total — 40-41

### PROFESSIONAL THEORY

0835.199	Overview of Physical Education	(2) _____
0835.203	Curriculum in Physical Education	(3) _____
0835.303	Organization & Administration	(3) _____
0835.309	Tests & Measurements	(3) _____
0835.311	Kinesiology	(3) _____
0835.313	Physiology of Exercise	(3) _____
*0835.315	Care & Prevention of Athletic Injury	(2) _____
*0835.321	Coaching & Officiating I	(1) _____
*0835.322	Coaching & Officiating II	(1) _____
0835.324	Teaching Physical Education in Elementary School	(2) _____
0835.325	Teaching Physical Education in Secondary School	(2) _____
0835.401	Principles & Problems I	(2) _____
0835.402	Principles & Problems II	(2) _____
*0835.423	Adapted Physical Education	(3) _____

### CERTIFICATE REQUIREMENTS

0401.101	Biological Science	(4) _____
1902.101	Physics B	(5) _____
2001.201	Educational Psychology	(3) _____
0401.113	Human Anatomy & Physiology I	(4) _____
0401.114	Human Anatomy & Physiology II	(4) _____

0601.269	Laboratory in Instructional Hardware	(1)_____
0801.401	Foundations of Education	(3)_____
0803.319	Survey of Education	(3)_____
1201.101	Current Health Problems	(3)_____
1201.103	First Aid	(2)_____
1201.201	Health Education in the Schools	(3)_____

#### MINOR REQUIREMENTS:

no minor available in Physical Education

#### STATEMENT ON TRANSFER CREDIT POLICY:

Physical Education transfer credits will be evaluated by the department.

#### PROFESSIONAL LABORATORY SKILLS

Professional laboratory skill courses [103-170] provide instruction in the basic activities appropriate for a teacher of physical education, including acquisition of skills and methods of instruction. Twelve (12) credits are required.

**0835.103	Archery	(0.5)_____
**0835.105	Badminton	(0.5)_____
*0835.107	Baseball	(0.5)_____
0835.111	Basketball	(0.5)_____
**0835.113	Body Mechanics	(0.5)_____
*0835.116	Conditioning	(0.5)_____
0835.118	Elementary Games	(0.5)_____
*0835.122	Field Hockey	(0.5)_____
*0835.126	Football	(0.5)_____
*0835.128	Golf	(0.5)_____
0835.130	Gymnastics I (tumbling)	(0.5)_____
0835.131	Gymnastics II (apparatus)	(0.5)_____
0835.133	Lacrosse	(0.5)_____
0835.135	Modern Dance	(0.5)_____
0835.141	Soccer	(0.5)_____
*0835.143	Softball	(0.5)_____
0835.145	Swimming	
146	[swimming courses according	
147	to placement test]	(1.0)_____
0835.155	Track & Field	(0.5)_____
0835.157	Volleyball	(0.5)_____
*0835.159	Wrestling	(0.5)_____
0835.163	Techniques of Teaching	
	Contemporary Movement	(1.0)_____

#### 2.5 CREDITS OF ELECTIVES SELECTED FROM PROFESSIONAL LABORATORY SKILLS.

Courses elected may be selected from courses numbered 112-170.

_____	(0.5)_____
_____	(0.5)_____
_____	(0.5)_____
_____	(0.5)_____
_____	(0.5)_____

\* Required for men — elective for women

\*\* Required for women — elective for men

#### PHYSICAL EDUCATION (0835)

##### Professional Theory Courses

0835.196, 296, 396, 496 [60.196, 296, 396, 496] INDEPENDENT STUDY (.5-3) Course is designed to permit students to take courses which they cannot arrange within the regular semester schedule. All work will be under the direct supervision of an assigned faculty. No more than 3.0 credits may be earned in Independent Study unless the

permission of the Department Chairperson is obtained. Prerequisites: To be approved by Department Chairperson. (Undergraduate credit only)

0835.199 (60.199) OVERVIEW OF PHYSICAL EDUCATION (2) A brief history of physical education emphasizing the place of physical education in education today, identification of leaders in the field, the role of professional ethics and standards, professional organizations (their purpose and function), and an introduction to professional literature.

0835.203 (60.203) CURRICULUM IN PHYSICAL EDUCATION (3) Physical education as a part of general education, aims and content. Principles for development of a sequential physical education curriculum in grades one through twelve.

0835.205 (60.205) CAMP LEADERSHIP (2) The role of the camp counselor in organized camping. Emphasis on camp related skills of campcraft, trips, crafts and nature study. Several field trips.

##### Upper Division — Undergraduate

0835.301 (60.301) RECREATION (3) Preparation for leadership and organization of after-school activities for children, such as club, hiking, camping and playground activities. Visits to recreation centers. Specialists in story telling, crafts, recreational singing, playground and club work give part of the course. Participation in some organized recreation with children.

0835.303 (60.303) ORGANIZATION AND ADMINISTRATION (3) Investigation of policies and procedures in the organization and administration of physical education. Areas covered include facilities, equipment, budget, scheduling, special events, records, awards.

0835.305 (60.305) SCHOOL CAMPING AND OUTDOOR EDUCATION (2) Aims, organization, administration, and program of the school camp.

0835.307 (60.307) TEACHING APPRENTICESHIP (.5-1) A student with a high degree of competency may request to be assigned to assist a faculty master teacher in a class instruction and evaluation. Approval of the chairperson of Physical Education, the Director of Major Program and the faculty member concerned are required. This course may be repeated once. Prerequisites: Junior-senior major; advanced skill level; approval of chairperson of Physical Education, Director of Major Program and faculty member concerned.

0835.309 (60.309) TESTS AND MEASUREMENT IN PHYSICAL EDUCATION (3) Background for development of measurement programs in physical education; elementary statistical procedures; interpretation of data; selection and administration of tests measuring fitness, motor ability, and sports skills applicable to various grade and age levels.

0835.311 (60.311) KINESIOLOGY (3) Mechanical and anatomical analysis of movement in relation to human performance. Prerequisites: Phys 1902.101, Biology 0401.113-114.

0835.313 (60.313) PHYSIOLOGY OF EXERCISE (3) Application of principles of physiology to large muscle activity, with special emphasis on the interrelations of muscular, nervous, circulatory, and respiratory functions during exercise. Prerequisite: Biology 0401.113-114.

0835.315 (60.315) CARE AND PREVENTION OF ATHLETIC INJURIES (2) Theoretical and practical methods of preventing and treating athletic injuries; techniques of taping and bandaging; emergency first aid; massage; use of physical therapy modalities. Prerequisite: Biology 0401.113-114.

0835.317 (60.317) MODERN DANCE COMPOSITION (3) Approaches to composition through short studies directed toward a feeling of phrasing and form in dance. To be offered as an elective for the physical education major or for any interested student. Prerequisite: Approval of instructor.

0835.319-320 (60.319-320) CHOREOGRAPHIC PROBLEMS I, II (3,3) Studies on the intermediate level using Pre-Classical forms and modern idioms of dance. Problems involved in choreographing for solo, duet, and small group dances. Prerequisite: 0835.317.

0835.321-322 (60.321-322) COACHING AND OFFICIATING I, II (1,1) Fundamentals, tactics, strategy, ethics and other factors in coaching and officiating sports. Prerequisite: Professional Laboratory Skills related to Team Sports.

0835.324 (60.324) TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL (2) The focus of this course is the child-in-movement. Specific attention centers on individual and group progressions for a wide variety of movements, methods of organization, direct and problem-solving teaching methods, and motor development. Opportunities to observe and teach children are provided.

0835.325 (60.325) TEACHING PHYSICAL EDUCATION IN SECONDARY SCHOOLS (2) Course provides an extended period of observation-participation in a junior or senior high school. The course includes responsibilities of the secondary school physical education teacher, teaching methods, lesson and unit planning, and topics resulting from the participation experience.

0835.331 (60.331) PRINCIPLES OF COACHING (3) A course designed to develop within each student an educationally sound philosophy of coaching. The emphasis will be on learning and understanding the principles and guidelines of good coaching and the application of the human psychology as it relates to the coach and athletes in their unique relationship. Prerequisites: General Psychology and Educational Psychology, or consent of instructor.

0835.401-402 (60.401-402) PRINCIPLES AND PROBLEMS OF PHYSICAL EDUCATION I, II (2,2) The application of knowledge derived from psychological, sociological and philosophical research findings about human movement to the teaching of physical education. The courses will emphasize research technique, individual projects and the synthesizing of information into logical foundations for teaching practices. Prerequisites: 0835.309, 313.

0835.403 (60.403) ORGANIZATION AND ADMINISTRATION OF INTRAMURALS (3) Course designed to permit the graduate and undergraduate student to acquire the skills of administration necessary in the development and organization of intramural programs in schools and colleges.

### Upper Division — Undergraduate and Graduate

0835.412 (60.412) THEORY AND ANALYSIS OF GYMNASICS MOVEMENT (3) Theoretical and practical application of mechanical analysis of movement concepts as related to proper execution of skills in gymnastics: The techniques and methods used in this course are designed to provide the teacher a logical system for presenting gymnastic skills to facilitate learning for the student; to demonstrate that gymnastic skills are logically founded on basic physics or terrestrial mechanics; to present aiding and spotting techniques.

0835.419 (60.419) SWIMMING AND POOL MANAGEMENT (3) An advanced course in teaching methods for all levels of swimming and diving. Modern methods of training the competitive swimmer with emphasis on technique and conditioning of the individual. The organization and administration of swimming pools and clubs with regard to

staff, recreation and pool filtration. Prerequisites: Senior Lifesaving and Water Safety Instructors, or consent of instructor. This is a certificate course for pool management, approved by the Department of Health, Baltimore County.

0835.421 (60.421) PHYSICAL EDUCATION PROGRAM IN THE ELEMENTARY SCHOOLS (3) A study of current trends and issues in curriculum development, methods and materials and research concerned with elementary school physical education programs. Prerequisite: 0835.324.

0835.423 (60.423) ADAPTIVE PHYSICAL EDUCATION (3) Recognition of pupils with physical deviations, and use of special or modified physical education activities. Prerequisites: 0835.311, 0401.113-114.

0835.425 (60.425) MODERN DANCE IN SECONDARY SCHOOL (3) Exploration into the variety of methods and materials available for the teacher of Modern Dance at the secondary school level. Prerequisite: Modern Dance I or its equivalent or permission of instructor. (Offered only in evening and summer.)

0835.430 (60.430) MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (3) Application of problem solving and individualized methods of teaching of movement for the elementary school child. Development programs and materials for teaching creative dance, games, and sports. Survey of current literature.

0835.441 (60.441) THE SPORTSWOMAN IN AMERICAN SOCIETY (3) The purpose of this course is to examine the American woman in sport. Literature from the historical, physiological, sociological, psychological and philosophical perspective will be reviewed. Concepts revealed will be contrasted with myths about and societal attitudes toward women who participate in sport. Prerequisites: 0835.203 and 303, or permission of instructor.

0835.453 (60.453) ORGANIZATION AND ADMINISTRATION OF ATHLETICS (3) Designed to aid those persons responsible to organizing and administering intramural and inter-school athletic programs. Topics such as organizational patterns, objectives of the programs, controls, game management, records, conduct of tournaments, officials, awards, and means of promoting the programs will be considered. Study will be made of competitive as well as informal recreation programs on all educational levels, with special emphasis on the secondary schools. Prerequisite: Upper division standing in Physical Education or Coaching or Administrative Experience.

0835.471 (60.471) PERCEPTUAL-MOTOR DEVELOPMENT IN PHYSICAL EDUCATION (3) The purpose of the course is to provide the teacher of physical education with a basic knowledge of the area of Perceptual-Motor Development. The following areas will be examined: Perceptual-Motor Programs and Theories, Perceptual-Motor Testing Programs, Related Research, Sensory Input and Motor Output. Prerequisite: Teaching Physical Education in the Elementary School — 0835.324.

0835.485 (60.485) SELECTED TOPICS IN PHYSICAL EDUCATION (3) Workshop designed for study of special topics of current interest in physical education and athletics. Content varies and will focus on substantive material or operational problems. Prerequisite: Consent of workshop director or graduate coordinator.

\*0835.509 (60.509) PSYCHOLOGY OF MOTOR LEARNING (3) Investigation of the various psychological factors that affect the acquisition of motor skills. Emphasis will be focused on teaching and practice methodology, motivational factors, learning theories, physical and motor considerations, anxiety, stress, tension, competition, mental practice, transfer of training, level of aspiration, etc. Prerequisite: Bachelor's degree with a major in Physical Education.



\*0835.512 (60.512) **SIGNIFICANT PERIODS IN PHYSICAL EDUCATION** (3) An examination of the influence of Greek, Roman, European and English concepts of physical education upon American physical education. Emphasis on the formation and development of American concepts of physical education. Prerequisite: Consent of graduate coordinator.

\*0835.513 (60.513) **ANALYSIS OF PHYSIOLOGICAL CONCEPTS** (3) Analysis of research and laboratory application of the physiological factors that affect human efficiency before, during and after exercise. Factors to be investigated include: metabolism, circulation-respiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc.

\*0835.530 (60.530) **MECHANICAL ANALYSIS OF MOVEMENT** (3) Various basic mechanical principles are analyzed as they relate to efficient human movement. The physical laws to be studied are leverage, motion, projectiles, gravity, buoyancy and equilibrium. The design of the course will be research oriented. Prerequisites: 0835.311 and an undergraduate major in physical education or consent of the graduate coordinator.

\*0835.533 (60.533) **ADMINISTRATION AND SUPERVISION OF PHYSICAL EDUCATION** (3) Designed to acquaint the student with the scope, problems and techniques of administering and supervising a program of physical education. The work of the chairman of the department, problems of personnel, program, facilities, and evaluation will be discussed. Prerequisite: Undergraduate degree in Physical Education or consent of graduate coordinator.

\*0835.539 (60.539) **CRITICAL ANALYSIS OF CURRENT LITERATURE IN PHYSICAL EDUCATION** (3) Designed to facilitate the depth and quality of the knowledge of students, teachers, administrators, supervisors and research personnel in their assessment and investigation of the following aspects of the physical education profession: contemporary leaders, books, journals, periodicals, projects, trends, issues, innovations, etc. Prerequisite: Undergraduate degree in physical education or consent of graduate coordinator.

\*0835.541 (60.541) **EVALUATIVE TECHNIQUES IN PHYSICAL EDUCATION** (3) Designed primarily to develop analytical

ability in the administration, assessment and interpretation of test results. Research and laboratory application involves the evaluation of measurements of classification indexes, power, agility, motor ability, balance, flexibility, kinesthetic perception, speed and recreation time, strength, muscular endurance, cardiovascular condition, sport skills, etc. Prerequisite: Undergraduate major in physical education or consent of graduate coordinator.

\*0835.545 (60.545) **FACILITIES AND EQUIPMENT FOR PHYSICAL EDUCATION** (3) Designed to cover the principles of programming and planning facilities for physical education. Indoor and outdoor activity areas will be studied as well as their maintenance. Procedure related to selection, purchase and care of equipment will be included. Prerequisite: Undergraduate degree with a major in physical education or consent of the graduate coordinator.

\*0835.547 (60.547) **RESEARCH SEMINAR** (3) Research on a project of particular significance to the individual through consultation with designated faculty members. Focus will be on the experimental design and the proper structural format for project or thesis formulation. Prerequisites: Educ 0801.691 as well as an undergraduate major in physical education and consent of graduate coordinator.

\*0835.551 (60.551) **COMPARATIVE PHYSICAL EDUCATION — CONTEMPORARY AND INTERNATIONAL** (3) A comparative analysis of contemporary patterns of physical education in selected countries throughout the world. Prerequisite: Undergraduate degree in physical education or consent of the graduate coordinator.

\*0835.553 (60.553) **CONTEMPORARY PHYSICAL EDUCATION CURRICULUM** (3) Curriculum design for elementary and secondary school physical education. Examination of current literature pertinent to aims, objectives, content, and method of physical education. Prerequisites: Teaching experience, undergraduate physical education major or consent of graduate coordinator.

\* All students, equivalency and degree candidates, must have Graduate Standing to take 500 level courses. See Graduate Studies Catalog for admission requirements. ALL SECONDARY DEGREE CANDIDATES WITH AN EMPHASIS IN PHYSICAL EDUCATION MUST HAVE COURSE SELECTIONS APPROVED BY THE GRADUATE COORDINATOR. Specific prerequisites are listed with each course description.



# Physics

Professors: BAREHAM, NEWMAN, PELHAM, RUBENDALL  
 RUBENDALL  
 LOH (Chairman), MOOREFIELD  
 Associate Professors: HUANG, JOHNSON  
 Assistant Professors: CHEN, GREENE, KREISEL, LARSEN,  
 MOLITOR, UKENS  
 Instructor: WESSNER  
 Assistant Instructor: MEGINNISS

The Physics Department offers two major programs, physics and natural science; a minor in physics, and a minor in geology. The department also offers a physics-engineering dual program in cooperation with the University of Maryland School of Engineering. In addition, many courses are applicable to a Thematic Option in Environmental Studies and service courses are offered in liberal arts' physical science and science education.

## Physics Major

The regular physics major is designed to meet the needs of those students planning either to enter graduate study in physics, environmental science, mechanics, oceanography, geophysics and other applied physics fields; or to be physicists in industry, government, and other non-teaching professions.

The physics teaching major is designed for those students planning to be physics teachers in the secondary schools.

Students who intend to be physics majors should see one of the following instructors: Huang, Larsen, Loh, Newman, or Wessner, early in their education at this college. Physics majors are required to complete 12 credits of upper division physics courses at this college.

## REGULAR PHYSICS MAJOR

Required Physics courses (35 credits):

1902.221-222 or	General Physics I, II	(4, 4)_____
1902.211-212		
1902.301	Mechanics	(4)_____
1902.305	Electricity and Magnetism	(4)_____
1902.311	Modern Physics	(4)_____
1902.313	History and Philosophy of Physics	(2)_____
1902.321	Introductory Mathematical Physics	(3)_____
1902.401	Physics Seminar I	(1)_____
1902.471	Introductory Quantum Mechanics	(3)_____
1902.381-382	Intermediate Physics Laboratory I, II	(2, 2)_____

Other physics electives

Non-physics requirements (24 credits):

1701.273	Calculus I	(4)_____
1701.274	Calculus II	(4)_____
1701.373	Calculus III	(4)_____
0401.101	Contemporary General Biology	(4)_____
1905.101-102 or	General Chemistry I, II or	(4, 4)_____
1905.103-104	General Chemistry for Majors I, II	

## PHYSICS TEACHING MAJOR

Required Physics Courses (28 credits):

1902.221-222 or	General Physics I, II	(4, 4)_____
1902.211-212		
1902.311	Modern Physics	(4)_____
1902.313	History and Philosophy of Physics	(2)_____

1902.301 or	Mechanics, or	(4)_____
1902.305	Electricity and Magnetism	(4)_____
1902.302 or	Thermodynamics and Kinetic Theory, or	(3)_____
1902.321	Introductory Mathematical Physics	(3)_____
1902.401	Physics Seminar I	(1)_____
1902.381-382	Intermediate Physics Laboratory I, II	(2, 2)_____

Other physics electives

Non-physics requirements (20 credits):

1701.273-274	Calculus I, II	(4, 4)_____
0401.101	Contemporary General Biology	(4)_____
1905.101-102 or	General Chemistry I, II or	(4, 4)_____
1905.103-104	General Chemistry for Majors I, II	

Required professional courses (23-26 credits):

2001.201	Educational Psychology	(3)_____
0803.341	Principles of Secondary Education*	(3)_____
0834.379	Teaching Science in Secondary School*	(2)_____
0601.369	Laboratory in Educational Media**	(1)_____
0834.301	Field Course in Secondary Science Teaching Methods**	(2)_____
0803.398 [399]	Student Teaching (Differentiated)	(10-13)_____
0801.401	Foundations of Education	(2)_____

\* Course to be taken prior to student teaching

\*\* Course taken concurrent with student teaching at teaching center

## A Suggested Schedule for Physics Majors

### FIRST YEAR

First Semester#		Credit Hours
1905.101	General Chemistry	4
1701.115	Mathematics	3
or 119		
1501.102	English	3
1506.101	Speech	2
*1103.101	German or	
1106.101	Russian or	
	Elective from Gen. Degree Requirement	3
		15
Second Semester#		
1905.102	General Chemistry	4
1701.116	Mathematics	3 or 4
or 273		
	English Elective	3
*1103.102	German or	
1106.102	Russian or	
	Elective from Gen. Degree Requirement	6 or 3
		16 or 17

### SECOND YEAR

First Semester		
#1902.221	Physics	4
1701.273	Mathematics	4
or 274		
0401.101	Biology	4
	Electives from Gen. Degree Requirement	4 or 5
		16 or 17
Second Semester		
#1902.222	Physics	4
1701.274	Mathematics	4
or 373		
	Electives from Gen. Degree Requirement	8 or 9
		16 or 17

### THIRD YEAR

#### First Semester

1902.321	Mathematical Physics	3
1902.311	Modern Physics	4
1902.381	Intermediate Physics Lab	2
1701.373	Mathematics	4
	Remaining Electives from Gen. Degree Requirement	3
		16

#### Second Semester

1902.305	Electricity & Magnetism	4
1902.301	Mechanics	4
1902.382	Intermediate Physics Lab	2
	Math & Physics† Electives	3
		13

### FOURTH YEAR

#### First Semester

†1902.471	Quantum Mechanics	3
	Physics‡ & Other Electives	12
		15

#### Second Semester

1902.401	Seminar	1
1902.313	History & Philosophy of Physics	2
	Physics‡ & Other Electives	10
		13

Students planning to teach in public schools (physics teacher majors) may schedule the required professional courses (24 credits) in the 3rd and 4th year. The electives must be chosen to satisfy the total 12 semester hours College Requirements. Students should be aware that most of the advanced physics courses (300 and 400 levels) may be offered in either the first semester or the second semester, but not in both semesters. Usually General Physics 66.211 (or 221) is also offered in the second semester and 66.212 (or 222) in the first semester. Students should plan their schedules according to the offering in each semester. It is the responsibility of the student to plan his/her program so that he/she may complete all requirements before graduation.

### NATURAL SCIENCE MAJOR

This program is designed to give a broader view of the sciences than is obtained in a traditional undergraduate major in a single science. This is done at the sacrifice of depth and students should therefore be aware that this major may not prepare them for graduate work in a single science.

Prospective secondary or middle school teachers of general science should consider this major. These students should plan their programs to meet the certification requirements of the area in which they plan to teach.

Students who intend to be natural science majors should see D. Greene early in their education at this college.

#### Natural Science Major (54 credits)

##### Required courses (30 credits):

0401.101	Contemporary General Biology	(4)_____
1905.101-102	General Chemistry I, II	(4,4)_____
1902.211-212	General Physics I, II	(4,4)_____
1901.121	Physical Geology	(4)_____
1901.161	General Astronomy I	(3)_____
1701.115	Mathematics I	(3)_____

\* Bachelor of Arts Degree

† Regular Physics Major.

‡ Students with sufficient background should take General Physics in Freshman Year.

One from each of the following groups (9-12 credits):

0401.105 or	General Botany, or	(4)_____
0401.109	Functional Anatomy or Vertebrates	(4)_____
1905.210 or	Principles and Methods of Chemical Analysis, or	(4)_____
1905.211 or	Quantitative Analytical Chemistry, or	(4)_____
1905.330	Essentials of Organic Chemistry	(5)_____
0401.295 or	Course Research, or	(1)_____
0401.491 or	Independent Research in Biology, or	(2-3)_____
1901.401	Advanced Laboratory in Physical Science	(2)_____

Electives (12-15 credits):

One field course is required.

Other electives from the biological and physical sciences (upper division courses recommended).

### PHYSICS MINOR

Required Physics Courses (20 credits):

1902.221-222 or	General Physics I, II	(4,4)_____
1902.211-212		
1902.301	Mechanics	(4)_____
1902.311	Modern Physics	(4)_____

Electives from other upper division physics courses

(4)\_\_\_\_\_

### GEOLOGY MINOR

This minor is intended primarily to serve students with majors in Geography, Natural Science, Biology, Chemistry, or Physics who may wish to obtain additional background in geological sciences as an aid to pursuing fields related to land use, environmental sciences, geochemistry, geophysics, or general science and earth science teaching in the secondary schools.

Students intending to elect a geology minor should see Bareham or Molitor.

Required geology courses (18 credits):

1901.121	Physical Geology	(4)_____
1901.171	Historical Geology	(3)_____
1901.222	Geomorphology	(3)_____
1901.331	Mineralogy	(4)_____
1901.333	Petrology of Igneous and Metamorphic Rocks	(4)_____

Electives (6 credits):

1901.322	Geomorphology of the Eastern United States	(3)_____
1901.443	Sedimentology and Sedimentary Petrology	(3)_____
0401.307	Introduction to Paleontology	(3)_____

### Dual-Degree Program in Engineering

In this program the student spends three years at Towson and two years at the University of Maryland School of Engineering to receive two bachelor's degrees. One from Towson in Physics, and one from the Aerospace, Fire Protection, or Civil Engineering). For further information about this program see "Engineering" in the College Curriculum Section of this catalog.

### PHYSICS COURSES (1902)

#### Lower Division — Undergraduate

1902.101 [66.101] GENERAL PHYSICS B (5) One semester General Physics with special emphasis on motion in

cluding kinematics and dynamics of linear and angular motion.

1902.211-212 [66.211-212] GENERAL PHYSICS I, II (4, 4) For Arts and Science, Biology, and Natural Science Majors: Mechanics, heat, light, electricity, magnetism and a brief introduction to modern physics. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 1701.115, or good standing of high school algebra and trigonometry.

1902.213 [66.213] GENERAL PHYSICS A (5) One semester General Physics with special emphasis on geometric and physical optics, optical instruments, electricity and magnetism, ac and dc circuits, atomic and nuclear physics and fluid flow. Prerequisites: 1701.115, 1905.102.

1902.221-222 [66.221-222] GENERAL PHYSICS I, II (4, 4) For Chemistry, Mathematics, and Physics Majors: Mechanics, heat, light, electricity, magnetism and a brief introduction to modern physics. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 1701.273 or concurrently.

1902.296 [66.295] COURSE RESEARCH IN 200-LEVEL COURSES

### Upper Division — Undergraduate and Graduate

1902.301 [66.301] MECHANICS (4) Systems of coordinates and kinematic components of motion; Newtonian dynamics of particles and linear systems, including planetary motion and oscillations in damped and undamped systems; virtual work; generalized coordinates and Lagrange's equations; Hamilton's principle with elementary applications of least action, varying action and the canonical equations. Some nonlinear effects will be introduced. Four lecture hours. Prerequisites: PHYS 1902.222 or 1902.212. MATH 1701.274.

1902.302 [66.302] THERMODYNAMICS AND KINETIC THEORY (3) Principles and laws of classical thermodynamics applied to simpler irreversible processes, including chemical elastic, electric and magnetic phenomena; thermodynamic functions and Maxwell's relations; the conservation equations in elementary kinetic theory; fluctuations reversible transfer effects. This course may be taken concurrently with PHYS 1902.212 or 1902.222 by permission. Three lecture hours. Prerequisites: PHYS 1902.212 or 1902.222. MATH 1701.274.

1902.305 [66.305] ELECTRICITY AND MAGNETISM (4) Theorems of Gauss and Stokes as applied to electrostatics and magnetostatics; diamagnetism and paramagnetism; steady and transient current effects; alternating currents; conduction in gases, photoelectricity; and electron theories of solid state phenomena; the classic treatment of Maxwell-Lorentz electromagnetic and propagation effects. And possibly the following topics will be included: the special theory of relativity; introduction to microwaves and wave guides; plasma physics and magnetohydrodynamics. Four lecture hours. Prerequisites: PHYS 1902.212 or 1902.222. MATH 1701.274.

1902.311 [66.311] MODERN PHYSICS (4) The specific details of this course will be changed from time to time as necessitated by student interests and needs. In general, the intermediate principles and applications of relativity, quantum physics, elementary particles, nuclear physics and solid state theory will serve as the foundation for additional specialized developments of current interest. Four lecture hours. Prerequisites: PHYS 1902.222 or 1902.212. MATH 1701.274.

1902.313 [66.313] HISTORY AND PHILOSOPHY OF PHYSICS (2) The works of Sarton, Cohen, Singer and Dampier on the history and significance of physical concepts. The

philosophical concepts of Bridgeman, Russell, Heisenberg and other contemporaries interpreted in the historical development. Two lecture hours.

1902.321 [66.321] INTRODUCTORY MATHEMATICAL PHYSICS (3) As the mathematical maturity of the students will allow, selected topics will be examined such as the generalized expressions for forces and potentials, vector analysis, applications of Fourier series and complex variables, and solutions of the harmonic oscillator and wave equations. Three lecture hours. Prerequisites: PHYS 1902.222 or 1902.212, MATH 1701.373 or concurrently.

1902.331 [66.331] MECHANICS II (4) Continuation of Mechanics 1902.301. Inertia and stress tensors; continuum mechanics; rotation of a rigid body; theory of small vibrations; basic postulates of the special theory of relativity; relativistic dynamics; lattice vibrations. Other special topics of advanced mechanics. Prerequisites: 1902.301 and 1902.321.

1902.381-382 [66.381-382] INTERMEDIATE PHYSICS LABORATORY I, II (2, 2) Extended experimentation related to major developments of modern physics: Millikan oil drop experiment, Franck-Hertz experiment, Compton scattering, e/m measurement, atomic and nuclear spectroscopy, etc. Purpose of the second semester is to familiarize the student with laboratory equipment and techniques of modern research: vacuum systems, cryogenics, electronics, machine shop techniques, thermometry, counters, etc. Prerequisite: 1902.311 or concurrently.

1902.335 [66.335] BASIC ELECTRONICS (4) Circuit components, characteristics of semi-conductors, electrical measurements, method of circuit analysis, electronic devices. Three lecture hours and one three-hour laboratory period. Prerequisite: 1902.212 or 1902.222 or consent of instructor.

1902.395 [66.395] COURSE RESEARCH IN 300-LEVEL COURSES

1902.401, 402 [66.401, 402] PHYSICS SEMINAR I, II (1, 1) Students participate in colloquia on topics of current interests in physics research under guidance of instructor. One lecture hour. Prerequisite: Senior standing or consent of instructor.

1902.411 [66.411] PHYSICAL OPTICS (3) Electromagnetic theory of light, wave solutions, interference, diffraction, scattering, radiation from coherent and incoherent sources, elementary theory of masers and lasers. Three lecture hours. Prerequisite: PHYS 1902.305 or consent of instructor.

1902.435 [66.435] ELECTRONICS (3) Principles of transistors with emphasis on their design and construction and an introduction to logic circuits. Two lecture hours and one two-hour laboratory period. Prerequisites: PHYS 1902.305, 1902.335.

1902.451 [66.451] NUCLEAR PHYSICS (3) A lecture and problem course dealing on an introductory level concerning experimental and theoretical method for the study of nuclear structure. Topics to be covered include: properties of nuclei, electromagnetic transition and beta decay; nuclear models, nuclear reactions, and two body interactions. Given in alternate years. Prerequisites: 1902.311; 1902.321 or consent of instructor.

1902.471 [66.471] INTRODUCTORY QUANTUM MECHANICS (3) The Schrodinger equation, states of one particle in one dimension, potential barrier problems in one dimension, the harmonic oscillator, system of particles in one dimension, motion in three dimensions, angular momentum, spin, application to atomic physics. It is recommended that 1902.305, 321 be taken prior to this course. Prerequisites: PHYS 1902.301, MATH 1701.373.

1902.472 [66.472] INTRODUCTION TO STATISTICAL MECHANICS (3) Distribution function, microcanonical, canonical and grand canonical ensembles, the partition function and thermodynamic relations. Fermi-Dirac and Bose-Einstein statistics, some simple model and applications, the Maxwell-Boltzman transport equation and the hydrodynamic equations, transport coefficients. Three lecture hours. Prerequisite: PHYS 1902.471.

1902.490 [66.490] INDEPENDENT STUDY PHYSICS (1-4) Prerequisite: At least junior status and one course in the Physics Department.

1902.491 [66.491] DIRECTED READINGS (1-4) Prerequisites: At least junior status and one course in the Physics Department.

1902.499 [66.499] HONORS THESIS IN PHYSICS (1-4) Writing of an honors thesis based on independent research done under the direction of a staff member. Prerequisites: Consent of instructor and open only to advanced honors candidates.

## PHYSICAL SCIENCE COURSES (1901)

1901.101 [64.101] PHYSICAL SCIENCE I (4) Principles of classical physics with an emphasis on the application of scientific method. May not be used for the Natural Science Major.

1901.121 [64.121] PHYSICAL GEOLOGY (4) Composition and structure of the earth. The internal and external forces acting upon it and the surface features resulting. Laboratory studies of common rocks and minerals, geologic and topographic maps and aerial photographs. Field trips required. Three lecture hours and two laboratory hours per week.

1901.131 [64.131] LIGHT AND COLOR (3) Some aspects of light and color and of vision will be examined on a factual and descriptive basis. Predominantly qualitative explorations will be made of the origin of light, of its wave and particle behavior, of the polarization of light, of lasers and holography, of the origin and physical basis of color, and of the physics of vision. This course in liberal arts physics is offered for curious inquirers who have had minimal contact with physics. Three lecture hours.

1901.141 [64.141] PHYSICS OF SOUND AND MUSIC (3) Study of sound and its production by various instruments, the human voice included. Physical interpretations will be given of concepts such as noise, pitch, loudness, harmonics and timbre, scales and temperament, etc. Other topics to be treated include: the mechanics of the inner ear, acoustics, electronic production and reproduction.

1901.151 [64.151] ENERGY AND POLLUTION (3) Basic forms of energy: thermal, electrical nuclear, solar. The relationship between energy and pollution. The problems of energy and pollution.

1901.161 [64.161] GENERAL ASTRONOMY I (3) Science of astronomy; investigations and theories concerning the solar system, galaxies and the universe. Two lecture hours and one two-hour laboratory period. High school algebra suggested.

1901.162 [64.162] GENERAL ASTRONOMY II (3) A study of stars, stellar systems, galaxies, and cosmology. Emphasis will be placed on the determination of the distance scale and modern trends in astronomy including methods used on space probes. Three contact hours. Prerequisite: General Astronomy I, or acceptable substitute.

1901.171 [64.171] HISTORICAL GEOLOGY (3) The history and development of the continents and ocean basins,

and the evolution of life on earth based upon information obtained from the sedimentary rock record. Field trip required. Prerequisite: 1901.121.

1901.195 [64.195] COURSE RESEARCH IN 100-LEVEL COURSES

1901.222 [64.222] GEOMORPHOLOGY (3) Origin and evolution of surface features of the earth as controlled by the interaction of geologic structures and erosional processes. Field work in the Maryland area. Two lecture hours and one two-hour laboratory period. Prerequisites: PHSC 1901.101, 1901.121.

1901.234 [64.234] STILL PHOTOGRAPHY (3) Emphasis will be on the production of photographs, rather than the mastery of many techniques. Camera operation, developing, printing and other topics according to student interest. Five contact hours.

1901.295 [64.295] COURSE RESEARCH IN 200-LEVEL COURSES

## Upper Division — Undergraduate and Graduate

1901.303 [64.303] EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3) Physical science principles applied in the study of earth and space. Emphasis on experimental and discovery approaches that may be used in the elementary school. Prerequisite: 1901.101.

1901.322 [64.322] GEOMORPHOLOGY OF THE EASTERN UNITED STATES (3) Extent, nature, and geological history of the geomorphic provinces of the Eastern United States. Emphasis on the Middle Atlantic states. Field excursions in the Maryland area. Prerequisite: 1901.222 Geomorphology.

1901.331 [64.331] MINERALOGY (4) The study of minerals with emphasis on crystallography, crystal chemistry, and chemical-structural classification. Laboratory identification of minerals both in hand specimen and thin section by application of principles of optical mineralogy. Three lecture hours and two hours laboratory. Prerequisites: 1901.121 Physical Geology; General Chemistry and General Physics.

1901.333 [64.333] PETROLOGY OF IGNEOUS AND METAMORPHIC ROCKS (4) Study of the properties and genesis of two major rock groups. Megascopic and microscopic techniques in rock classification. Environments of formation. Three lecture hours and two hours laboratory. Prerequisite: 1901.331 Mineralogy.

1901.401 [64.401] ADVANCED LABORATORY IN PHYSICAL SCIENCE (2) Exacting Laboratory work of an advanced nature under the guidance of the Physics Department staff. Each student will present and defend his work at a seminar. Prerequisite: Consent of instructor.

1901.405 [64.405] FUNDAMENTAL CONCEPTS IN THE EARTH SCIENCES (3) Principles of astronomy, geology and related earth sciences. Methods of investigation employed by earth scientists. Observations in the planetarium and field studies in the Baltimore area. Two lecture hours and one two-hour laboratory period. No credit allowed if student has taken PHSC 1901.211 (Astronomy) and/or PHSC 1901.121 (Geology).

1901.443 [64.443] SEDIMENTOLOGY AND SEDIMENTARY PETROLOGY (3) The study of the materials and processes involved in the formation of sedimentary deposits. Emphasis will be on analysis of sediments and sedimentary structures helpful in determining depositional en-

vironments. Prerequisites: 1901.121 Physical Geology; 1902.211-212 or 1902.221-222.

1901.495 (64.495) COURSE RESEARCH IN 400-LEVEL COURSES

### SCIENCE EDUCATION COURSES (SCIE)

The following courses are taught by instructors in the Department of Physics and Biological Sciences. Course descriptions will be found under the Education Department listings:

SCIE 0834.341 (76.341) TEACHING SCIENCE IN EARLY CHILDHOOD EDUCATION, PROFESSIONAL BLOCK I — SCIENCE

SCIE 0834.301 (76.301) FIELD COURSE IN SECONDARY SCIENCE TEACHING

SCIE 0834.375 (76.375) TEACHING SCIENCE IN THE ELEMENTARY SCHOOL

SCIE 0834.379 (76.379) TEACHING SCIENCE IN THE SECONDARY SCHOOL

SCIE 0834.401 (76.401) SEQUENTIAL SCIENCE MODULES FOR THE ELEMENTARY SCHOOL TEACHER

SCIE 0834.488 (76.488) (SUMMERS) AEROSPACE EDUCATION WORKSHOP

SCIE 0834.585 (76.585) SEMINAR IN ELEMENTARY SCHOOL SCIENCE



# Psychology

Professors: CASSATT, FURUKAWA (*Chairperson*),  
NEULANDER, SAXTON, SUYDAM, SLATER

Associate Professors: ARMSTRONG, GROENHEIM, MILLER  
RASKIN

Assistant Professors: BAILEY, BASS, DICESARE, FALLIK,  
FIGLER, LAVIN, LEYHE, PETRI, RABIN, RAVAL,  
SANDERS, WALLEN, WEBSTER, YOUNG, ZWEBACK  
KRUGGEL, JOHNSON, FINK, FOLLINI, PARENTE,  
VANDERHORST

Assistant Instructor — CRANE

Visiting Professors — GIBSON, POPE

Visiting Assistant Professor: McGEE

A student may elect a major (32 hours) or minor (24 hours) in psychology programs aimed at understanding and predicting behavior. Electives beyond the basic requirements facilitate preparation for: (1) graduate work in psychology and in guidance, (2) training in special and in general education, (3) vocations requiring a liberal arts background, and (4) providing clinical services.

## BACHELORS DEGREE... PSYCHOLOGY

### Requirements

Major — total — 32

Minor — total — 24

2001.101	General Psychology	(3)_____
2001.111	Behavioral Statistics	(4)_____
2001.261	Experimental Psychology	(4)_____
2001.305	Psychology of Learning	(3)_____

(Major) 18 hours of approved electives offered by the department, 12 of which must be courses at the 300-400 level:

_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____

(Minor) 10 hours of approved electives offered by the department.

_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____

### Transfer Students

Transfer students may transfer a maximum of 15 hours toward the major.

### Transfer of Credits

For courses completed prior to matriculation at Towson, the Admissions Office will normally determine whether the credits are transferrable. In these cases, therefore, the Department will only make recommendations in unique cases. For courses to be taken at other institutions *after* matriculation, prior approval of the department and the Academic Standards Committee is required.

In all other cases, the Department will consider credit transfer on an individual basis. These requests to the De-

partment should be submitted in writing, with a description of the course content (e.g., catalog description) and the name and author of the textbook used.

## SPECIAL PROGRAMS

### Clinical Concentration for Psychology Majors

The combined Sheppard Pratt-Towson Clinical Concentration in Psychology will lead to a B.S. in Psychology from Towson State College and a certificate as a Specialist in Mental Health from the Sheppard Pratt Hospital School of Allied Mental Health Sciences. The curriculum requirements consist of three components:

A. Basic college and psychology department requirements, as follows:

First year, first semester: credits — 17 practicum — 0

1501.102 Freshman Composition (3)\_\_\_\_\_

1506.101 Fundamentals of Public Speaking (3)\_\_\_\_\_

(Option from Art, Drama, English, Music,  
Philosophy, and Religion, Speech) (3)\_\_\_\_\_

2001.101 General Psychology (3)\_\_\_\_\_

(Two options from Economics, Geography,  
History, and Political Science) (6)\_\_\_\_\_

First year, second semester: credits — 15 practicum — 0

(Two options from Art, Drama, English, Music,  
Philosophy, and Religion, Speech) (6)\_\_\_\_\_

0401.101 Contemporary General Biology (lab) (4)\_\_\_\_\_

(Option from Economics, Geography, History,  
Political Science) (3)\_\_\_\_\_

009-059 Physical Education for Non-Majors (3)\_\_\_\_\_

Second year, first semester: credits — 16 practicum — 0

2001.111 Behavioral Statistics (4)\_\_\_\_\_

2001.361 Abnormal Psychology (3)\_\_\_\_\_

2208.101 Introduction to Sociology (3)\_\_\_\_\_

(One option from Health and Physical Educ.) (3)\_\_\_\_\_

(One option from \*Clinical Program selections) (3)\_\_\_\_\_

Second year, second semester: credits — 16 practicum — 0

2001.261 Experimental Psychology (4)\_\_\_\_\_

2001.350 Personality (3)\_\_\_\_\_

2001.437 Clinical Interviewing I (3)\_\_\_\_\_

2001.413 Clinical Testing Procedures I (3)\_\_\_\_\_

(\*One option from Clinical Program selections) (3)\_\_\_\_\_

Third year, first semester: credits — 15 Credits — 13  
practicum — 2

2001.305 Psychology of Learning (3)\_\_\_\_\_

2001.414 Clinical Testing Procedures II (3)\_\_\_\_\_

2001.439 Clinical Interviewing II (3)\_\_\_\_\_

2001.453 Introduction to Psychotherapy I (3)\_\_\_\_\_

(Option from Sociology) (3)\_\_\_\_\_

Third year, second semester: credits — 16 credits — 12  
practicum — 4

2001.311 Behavior Modification I (3)\_\_\_\_\_

2001.455 Introduction to Psychotherapy II (4)\_\_\_\_\_

2001.431 Group Dynamics (3)\_\_\_\_\_

(One option from Group I) (3)\_\_\_\_\_

(\*One option from Clinical Program selections) (3)\_\_\_\_\_

Fourth year, first semester: credits — 16 credits — 12  
practicum — 3

2001.312 Behavior Modification (3)\_\_\_\_\_

- 2001.435 Field Experience in Group Dynamics (3-6) ———  
 One option from Math or Physical Science (3) ———  
 (\*One option from Clinical Program selection) (3) ———
- Fourth year, second semester: credits — 13 credits — 11  
 practicum — 2
- 2001.457 Adjunctive Services to Families of Patients (4) ———  
 2001.451 Introduction to Activity Therapy (4) ———  
 (\*Two options from Clinical Program selections) (6) ———

Clinical Program Options are: PSYCHOLOGY DEPARTMENT — 2001.211 (70.211) Child Psychology, 2001.321 (70.321) Adolescent Psychology, 2001.425 (70.425) Introduction to the Helping Relationship, 2001.309 (70.309) Behavioral Pharmacology, 2001.471 (70.471) Introduction to the Exceptional Child, 2001.370 Foundations of Rehabilitation Counseling, (new) Psychology of Aging, SOCIOLOGY DEPARTMENT — 2208.203 (80.203) The Family, 2208.343 (80.343) Minority Groups, 2208.353 (80.353) Criminology, 2208.355 (80.355) Juvenile Delinquency and medical sociology, MORGAN STATE COLLEGE — 19.410 Addiction & Alcoholism I, 19.411 Addiction and Alcoholism II, 19.301 Community Mental Health, 19.302 Community Mental Health, 19.403 Community Action for Mental Health I (Seniors).

#### B. Work-Study Blocks

There are nine work-study blocks, each consisting of courses and closely related practicum experiences. Eight work study blocks lead to the development of skills in clinical areas, and the ninth, in research. The study blocks are: (1) Dyadic helping relationship (Individual therapy); (2) Group interaction (Group therapy, Psychodrama); (3) Interviewing; (4) Counseling and work with community resources; (5) Therapeutic services for family (relatives) of patient; (6) Psychological testing; (7) Activity Therapy; (8) Behavior Modification; and (9) Research.

#### C. Field Training in Human Services, 2001.443 (70.443) (4 credits — 2 per summer)

In contrast to the practicums, which are supervised clinical experiences closely related to courses in the curriculum, the field experiences are brief, exposures to on-the-job training. There will be five such field experiences, the first a three week period during the minimester of the Sophomore year, and the remaining four coinciding with the two summer sessions after the Sophomore and junior years. Each of the five field assignments is a supervised work experience, with stipend. Two of the field assignments will be required; these will be on in-patient halls at Sheppard Pratt Hospital. The remaining three will be elective, to be chosen from a list of twelve available clinical facilities. Supervision for the field experiences will generally be provided by the placement facilities.

#### Psychology Honors

The Department of Psychology seeks to give special recognition to students for academic excellence through its Honors Program. The guiding philosophy of the Department's Honors Program is to provide the student with a specialized learning experience in both scholarly investigation and scholarly writing. The student who completes an approved program will receive a diploma with the designation Bachelor of Arts or Bachelor of Science in Honors in Psychology. Departmental honors will also appear on the student's transcript.

The program is developed for the junior and senior years and includes nine to ten credit hours in 2001.381 (70.381), 2001.485 (70.485), and 2001.488 (70.488). A colloquium presentation based on the Senior Thesis 2001.499 (70.499) is required. An honors candidate will also be required to take the Graduate Record Examination and is expected to achieve no less than the 50th percentile on the Aptitude Test (Verbal and Quantitative) and no less than the 70th percentile on the Area Specialization Test in Psychology.

To be admitted to the program a student must present an overall cumulative average of 3.25 with a cumulative average of 3.50 in Psychology. To graduate from the program the recipient of the honors degree must maintain as a minimum the aforementioned cumulative averages. For additional procedural details contact the Department's Honors Coordinator.

#### Master of Arts in Psychology

The Master of Arts in Psychology is designed for students who are primarily interested in an advanced degree in General Psychology, School Psychology, Clinical Psychology or Counseling. For detailed information, see the Catalog of Graduate Studies.

#### PSYCHOLOGY COURSES (2001)

##### Lower Division — Undergraduate

- 2001.101 (70.101) GENERAL PSYCHOLOGY (3) Methods and principles. Attention to: Measurement, experimentation, sensation, perception, learning, emotion, thinking, remembering, personality, adjustment, development and individual differences. Students will be required to participate in two supervised experiments (outside of class time) to further their understanding of the application of methods of science to the study of human behavior. Prerequisite: None. Fall, Spring, Summer.
- 2001.106 (70.106) APPLIED PSYCHOLOGY (3) Psychologists' contributions to education, medicine, law, mental health and business. Application to problems in these areas. Lectures and field trips. Prerequisite: None. Spring.
- 2001.111 (70.111) BEHAVIORAL STATISTICS (4) Distributions and graphs, notation, levels of measurement, percentiles, measures of central tendency and variability, principles of probability, the normal curve, standard scores, sampling theory, hypothesis testing, significance of differences, correlation and prediction, computation on computer terminals, Chi square, Non-parametrics, One-Way analysis of variance. Prerequisite: None. Fall, Spring, Summer.
- 2001.201 (70.201) EDUCATIONAL PSYCHOLOGY (3) The learning process and related concepts; human development; individual differences; measurement and evaluation; personality and adjustment. Prerequisite: 2001.101. Fall, Spring, Summer.
- 2001.203 (70.203) HUMAN GROWTH AND DEVELOPMENT (3) A study of research and theories related to the overall development of the child and adolescence with emphasis on the relative influences of the home, the peer group, the school and the social milieu on the developing self. Prerequisite: 2001.101. Spring & Fall.
- 2001.209 (70.209) CONSUMER BEHAVIOR (3) Basic psychological concepts concerning consumer behavior such as the cognition, perception, learning, attitudes, cognitive dissonance, risk-taking, motivation, and personality of the buyer. Emphasis on the interrelation of economic and sociocultural factors on consumer decision-making, including recent research findings and marketing applications. Prerequisite: 2001.101. Spring & Fall.



- 2001.211 (70.211) CHILD PSYCHOLOGY (3) Theories and research methods of child behavior. Development of major psychological functions. Prerequisite: 2001.101. Fall, Spring, Summer.
- 2001.221 (70.221) SOCIAL PSYCHOLOGY (3) The structure and function of groups. Recent advances in sociology, anthropology and psychiatry as related to psychology. Prerequisite: 2001.101. Fall & Spring.
- 2001.223 (70.223) INDUSTRIAL PSYCHOLOGY (3) A survey of psychological principles applied to man at work, to work tasks, to work settings, and to the design of equipment used in work. Prerequisite: 2001.101. Fall.
- 2001.230 (70.230) MENTAL HYGIENE (3) Adjustment as related to mental health, problems to which adjustment is made, and the nature of conflict. Prerequisite: 2001.101. Spring.
- 2001.261 (70.261) EXPERIMENTAL PSYCHOLOGY (4) The experimental method and its application to recent problems in psychological research; introduction to experimental design and inference; animal and human learning, perception, social, personality, maturation. Three hours lecture, two hours laboratory per week. Prerequisites: 2001.101 and 2001.111. Fall, Spring.

### Upper Division — Undergraduate and Graduate

- 2001.305 (70.305) PSYCHOLOGY OF LEARNING (3) Analysis of selected problems in both human and animal learning including reinforcement, punishment, verbal learning and verbal behavior. Prerequisite: 2001.261. Fall, Spring and Summer.
- 2001.309 (70.309) BEHAVIORAL PHARMACOLOGY (3) A systematic investigation of the effects of drugs on behavior. Drug classification, historical aspects, methodological considerations, uses in treatment, drug abuse, and related topics will be considered. Prerequisite: 2001.261 or consent of instructor. Fall, Spring, alternate summers.
- 2001.311 (70.311) BEHAVIOR MODIFICATION I (3) Examination & application of the basic principles of the experimental analysis of behavior, with an emphasis on the applied aspects of this modern discipline to schools, jobs, interpersonal relations and self control. Prerequisites: 12 hours of Psychology, including 2001.261. Spring.
- 2001.312 (70.312) BEHAVIOR MODIFICATION II (3) Intensive academic and practicum training in various individually oriented behavior therapy techniques. Close individual supervision in practicum work. Prerequisite: 2001.311. Fall.
- 2001.315 (70.315) MOTIVATION (3) Theories of motivation, motivational antecedents, and the consequences of such antecedents on instrumental behavior, learning and perception. Prerequisite: Six hours. Fall.
- 2001.317 (70.317) SENSATION AND PERCEPTION (3) A systematic investigation on the basic senses such as vision, audition, taste, smell, and touch will be undertaken. The organization of sensory input will also be emphasized. Both human and non-human data will be presented. Prerequisite: 2001.261. Spring.
- 2001.321 (70.321) ADOLESCENT PSYCHOLOGY (3) Physical, emotional, intellectual development during adolescence; social development and heterosexuality; adolescent personality; problems of adjustment; juvenile delinquency. Prerequisite: 2001.211 or 2001.201. Fall, Spring.
- 2001.323 (70.323) PSYCHOLOGY OF WOMEN (3) Behavioral consequences of chromosomal, hormonal, and maturational influences on female development are contrasted with culturally derived patterns of sex-typical behavior.

Traditional theoretical approaches to motivation, personality, and mental health are related to changing perspectives with regard to women, their roles and self-concepts. Prerequisite: 2001.101.

- 2001.330 (70.330) PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (3) Individual differences in human traits and characteristics; methodology, basic principles, and major findings in research. Prerequisites: 2001.101 and 2001.111. Spring.
- 2001.341 (70.341) ENVIRONMENTAL PSYCHOLOGY (3) The relationship between the physical and social environment and behavior, i.e., places, spaces, and people. How man/woman construes, interprets, comprehends, feels about the environment, and how the environment functions as a reflection of human needs and values. Topics include environmental design, crowding, privacy, human territoriality, personal space. Prerequisite: 2001.101.
- 2001.350 (70.350) PERSONALITY (3) Theoretical and practical approaches to the study of personality. Introduction to psychodynamics and to methods and materials of assessment. Prerequisite: Six hours. Spring.
- 2001.361 (70.361) ABNORMAL PSYCHOLOGY (3) Disordered personal reactions to life. Organic and functional phenomena plus therapeutic techniques. Prerequisite: Nine hours. Fall.
- 2001.381 (70.381) READINGS IN PSYCHOLOGY (1-2) A survey of relevant research literature under the guidance of a staff member who will direct the students' research. Prerequisite: 2001.261, or consent of instructor. Fall, Spring.
- 2001.383 (70.383) PROCTORING IN PSYCHOLOGY (3) Students serve as teaching apprentices or proctors in a course which they have already completed (such as General Psychology), and which they must relearn to 100% mastery. Students will manage the learning and evaluate individual progress of the members of the class assigned to them. The experience includes guidance, support, and motivation of the assigned students, all in a supervised situation. Prerequisites: Successful completion of five or more Psychology courses or: general, educational and child, or adolescent psychology and principles of education and be a junior or a senior plus permission of instructor. Fall, Spring, Summer.
- 2001.385 (70.385) SEMINAR IN PSYCHOLOGY (1-3) Survey and critical evaluation of modern literature pertaining to selected problems in Psychology. Prerequisite: 2001.261, or consent of instructor. Fall, Spring.
- 2001.401 (70.401) HUMAN LEARNING (3) This course will focus upon aspects of learning applicable specifically to human behavior. This includes such topics as acquisition, memory, problem solving, creativity and language. Topics will be discussed within a framework of historic and current theoretical research perspectives. Prerequisites: Experimental Psychology; Psychology of Learning.
- 2001.405 (70.405) THE PSYCHOLOGY OF AGING (3) A study of the changes in learning, emotions, personality and social behavior and the impact of culture and attitudes on the aging process. Prerequisites: 6 hours of Psychology, students should be aware of how to read and understand psychology journals and how psychological research is conducted.
- 2001.407 (70.407) PSYCHOLOGY OF READING (3) Psychological foundations of current technology for teaching reading and improving reading skills. Study, evaluation, and implications of psychological studies, psychological models of reading [cognitive, information processing, and chunking], and learning theory on the beginning, intermediate, and advanced reader. Prerequisites: 2001.101, 2001.201, 2001.211 or 2001.511, recommended 1220.105.

- 2001.409 (70.409) ORGANIZATIONAL PSYCHOLOGY (3) Human relations in the work setting. Topics will include theory and research concerning leadership, job satisfaction and motivation, organizational communication, group dynamics, and organizational change. Prerequisite: Six hours in psychology.
- 2001.411 (70.411) TESTS AND MEASUREMENTS (3) Psychological and educational testing and evaluation. The construction, administration, interpretation and use of various evaluative devices of aptitude and achievement. Prerequisites: 2001.101 and 2001.111. Fall, Spring, Summer.
- 2001.413 (70.413) CLINICAL TESTING PROCEDURES I (3) Introduction to testing in a clinical setting. The nature of tests. The nature of personality assessment. Referral problems. Psychometric approach to specific tests of intelligence and organicity. Role of examiner. Ethical standards. Prerequisites: 2001.111 and 2001.361. Spring.
- 2001.414 (70.414) CLINICAL TESTING PROCEDURES II (3) Psychometric use of projective techniques. Test observation. Reporting testing data. Ethical use of psychometrical techniques. Prerequisite: 2001.413. Fall.
- 2001.416 (70.416) PERSONALITY MEASUREMENT (3) A continuation of 2001.411 that will emphasize the use and interpretation of instruments for measuring attitudes, interests and related aspects of personality. Instruments studied will include paper-pencil inventories, projective devices and observational procedures. Prerequisites: 2001.411 and 2001.230, or 2001.361. Spring.
- 2001.421 (70.421) APPLICATIONS OF BEHAVIORAL PRINCIPLES TO FAMILY AND CLASSROOM ENVIRONMENTS (3) Practical application of operant techniques to child management and family functioning. Course will deal with behavioral analysis, behavior modification programs and family contracting both at school and at home, with emphasis on learning basic technical skills. Prerequisite: 2001.211.
- 2001.425 (70.425) INTRODUCTION TO THE HELPING RELATIONSHIP (3) Current concepts of the helping relationship and an exploration of the conditions that facilitate its effectiveness. Prerequisites: 2001.101, and psychology major or minor planning to enter one of the helping professions, or graduate student in Guidance and Counseling, or consent of the department. Fall, Spring, Summer.
- 2001.427 (70.427) INTRODUCTION TO INTERVIEWING TECHNIQUES I (3) An introduction to interviewing with the examination of real interviews with children in difficulty. The theory and methods of delivery of helping services via the interview. Prerequisites: minimum of two months interviewing experience and permission of instructor. Course is offered in one week session. January and June.
- 2001.428 (70.428) INTERVIEWING TECHNIQUES II (3) This is a continuation of 2001.427. The course explores more deeply the unique relationship of the interviewer to the client. There is a practical experience with critiquing of interviews of students. Prerequisite: 2001.427.
- 2001.430 (70.430) SYSTEMS AND TECHNIQUES OF COUNSELING PRACTICE (3) Review and application of current theoretical approaches to the helping relationship. Prerequisites: 2001.425 and either 2001.230 or 2001.361 or 2001.540. Spring.
- 2001.431 (70.431) GROUP DYNAMICS (3) Intensive study of group interactions with emphasis upon reciprocal group influence of behavior. Prerequisite: 2001.221 or consent of instructor. Fall.
- 2001.435 (70.435) SUPERVISED FIELD EXPERIENCE (3-6) Placement in a community service agency to familiarize the student with its current practices. Supervised client contact will be provided. Prerequisites: 23 hours of psychology and consent of instructor.
- 2001.437 (70.437) CLINICAL INTERVIEWING (3) Combined didactic and experiential coverage of types of interviews, dimensions of interviewer input, interviewee response and of relationships. Prerequisites: 2001.425 plus admission in Clinical Concentration in Psychology. Fall.
- 2001.439 (70.439) CLINICAL INTERVIEWING II (3) Clinical observation and practicum experience. Focus on interviewer and interviewee dimensions and relationship with patients. Use of tapes, seminars and individual supervision. Prerequisite: 2001.437. Fall.
- 2001.441 (70.441) INFORMATION SERVICE IN COUNSELING AND GUIDANCE (3) Educational and vocational resources. Evaluation, classification and use of such information. Prerequisite: 2001.101.
- 2001.443 (70.443) FIELD TRAINING IN HUMAN SERVICES (1 or 2) Work experience in a hospital or clinic setting in the field of human services. Prerequisite: Acceptance in Clinical Concentration. Summer.
- 2001.451 (70.451) INTRODUCTION TO ACTIVITY THERAPY (4) Principles and procedures of activity as a method of therapy (e.g., occupational, recreational, vocational, music, dance, art, drama). Practicum includes observation of various methods and participation under supervision in occupational and recreational therapy. Prerequisites: 2001.350, 2001.361, 2001.431. Spring.
- 2001.453 (70.453) INTRODUCTION TO PSYCHOTHERAPY I (3) Readings, lectures, and seminars relating to psychological emergencies and the modes of intervention during psychological crises. Prerequisite: 2001.425. Fall.
- 2001.455 (70.455) INTRODUCTION TO PSYCHOTHERAPY II (4) Survey of methods and techniques to dyadic therapy using selected readings. Practicum involving observation and seminar discussions and participation with individual supervision. Prerequisites: 2001.425 and 2001.453. Spring.
- 2001.457 (70.457) ADJUNCTIVE SERVICES TO FAMILIES OF PATIENTS (4) Organization and adaptation of treatment procedures to the family as a group, and to individual relatives. Practicum at a neighboring state hospital, under supervision, and at local agencies. Prerequisites: 2001.211, 2001.321, 2001.361, 2001.453, 2001.203, Clinical Concentration students.
- 2001.460 (70.460) COMPARATIVE PSYCHOLOGY (4) The differences in behavior between species will be compared within a framework of learning, ethology, and neuropsychology. Three hours of lecture, two hours laboratory per week. Prerequisite: 2001.261. Spring.
- 2001.461 (70.461) COGNITIVE PSYCHOLOGY (3) This course will deal with the nature of the cognitive processes, an analysis of the organization of cognitive abilities, and problems in cognition. Theoretical viewpoints will be explored, including those of Piaget, J. P. Guilford, Ausubel, Lewin, Skinner. A comparison among theories will be made as they relate to the thinking processes. Prerequisites: 2001.203, 2001.211 or with permission of instructor. Spring.
- 2001.465 (70.465) PHYSIOLOGICAL PSYCHOLOGY (4) The physiological basis of behavior, with consideration of receptor, central and effector structures and function. Three hours lecture, 2 hours laboratory per week. Prerequisite: 2001.261 or permission of instructor. Fall.
- 2001.471 (70.471) INTRODUCTION TO THE EXCEPTIONAL CHILD (3) Children with a typical, physical, mental, social and emotional development, including the physically handicapped, the mentally retarded, the gifted, and emotionally disturbed children. Prerequisite: 2001.201 or 2001.211. Fall.
- 2001.475 (70.475) IDENTIFICATION AND TREATMENT OF SENSORY DISABILITIES IN THE SCHOOLS (3) The use

of psychological and informal tools to identify sensory disabilities related to perceptual development and the employment and development of treatment methods will cover the first half of the semester. During the second half of the semester, students will be actively involved in working with children experiencing these difficulties. Cross and fine motor coordination, visual-motor coordination, ocular control, auditory discrimination, and verbal skills will be covered. Prerequisite: Consent of coordinator of School Psychology.

2001.480 (70.480) SYSTEMS OF PSYCHOLOGY (3) Schools of psychology with their theoretical and methodological approaches. Prerequisites: At least a junior psychology major and consent. Spring.

2001.485 (70.485) EXPERIMENTAL DESIGN (4) Design and analysis—Analysis of variance (completely randomized design, repeated measurement designs, etc.), multiple comparisons, nonparametrics, general problems related to sampling, experimental effects, etc. Prerequisite: 2001.111, or consent of instructor. Fall, Spring.

2001.491 (70.491) INDEPENDENT INVESTIGATION IN PSYCHOLOGY (3) An opportunity for especially qualified students to undertake research problems according to their interest and training under the direction of a staff member. Prerequisites: 2001.201 and consent of department chairperson. Fall, Spring.

2001.499 (70.499) SENIOR THESIS IN PSYCHOLOGY (4) (Honors) Independent research on special problems in Psychology or closely related fields. Prerequisites: 2001.261, 2001.485, Honors approval. Fall, Spring.

## Graduate Division

2001.511 (70.511) DEVELOPMENTAL PSYCHOLOGY (3) Psychological structures and functions in human development. Theoretical and research approaches. Prerequisite: 2001.201 or equivalent. Fall, Spring, Summer.

2001.515 (70.515) INTRODUCTION TO RESEARCH METHODS IN COUNSELING (3) An introduction to the principal methods of behavioral research emphasizing concepts rather than statistical procedures. The course should prepare counselors to evaluate methods, designs, and results of counseling research. Prerequisite: Graduate standing in Counseling.

2001.520 (70.520) INDIVIDUAL INTELLIGENCE TESTING (3) Construction, standardization, administration, scoring and interpretation of the Wechsler Individual Intelligence Tests, the Stanford-Binet Intelligence Scale, Human Figure Drawings, the Bender Gestalt, the Gray Oral Reading Test and the Wide Range Achievement Test. Prerequisites: 2001.111 and 2001.411. M.A. candidate in School or Clinical Concentration. Consent of co-ordinator. Fall.

2001.521 (70.521) ADVANCED EDUCATIONAL PSYCHOLOGY (3) Survey of current research in Child Psychology, Learning, Mental Hygiene, and Tests and Measurements. Emphasis on critical analysis of studies. Prerequisite: 2001.511. Fall, Spring, Summer.

2001.531 (70.531) ADVANCED ABNORMAL PSYCHOLOGY (3) Current and historical perspectives of psychopathology. Emphasis on varied approaches in contemporary schools. Methods of assessment and treatment. Prerequisite: 2001.230 or 2001.361. Spring.

2001.540 (70.540) MENTAL HYGIENE IN EDUCATION (3) Principles of mental hygiene and their application to the educational setting. Major emphasis on wholesome personality development. Prerequisite: 2001.511. Spring.

2001.543 (70.543) INTRODUCTION TO SCHOOL PSYCHOLOGY (1) An introduction to ethics and issues in school

psychology and preparation of the student to move efficiently through the program. This course should be taken at the beginning of the student's course of studies. Prerequisites: Open only to M.A. candidates in the School Psychology Program. Consent of coordinator. Fall, Spring.

2001.545 (70.545) COPING STRATEGIES IN THE CLASSROOM (3) Practical application of psychological principles and concepts as related directly to the classroom. This course is designed to increase teacher awareness of the teacher's impact on the classroom members with specific emphasis on individual differences. Prerequisite: 2001.511 or equivalent.

2001.550 (70.550) DIAGNOSTIC TECHNIQUES IN EDUCATION (3) Use of standardized and teacher-constructed instruments for diagnostic and instructional purposes. Prerequisites: 2001.511, 2001.411 or equivalent. Spring.

2001.551 (70.551) TECHNIQUES OF GROUP INTERVENTION (3) A theoretical and experiential introduction to the techniques available for use with children experiencing difficulty in the school environment. Emphasis will be on learning the techniques through active participation. Prerequisites: M.A. candidate in School or Clinical Concentration or in Counseling Program. Consent of coordinator. Spring, Summer.

2001.553 (70.553) ISSUES AND RESEARCH IN SCHOOL/CLINICAL PSYCHOLOGY (3) Provides for analysis of major issues in school and/or clinical psychology through the study of selected research. Prerequisites: 2001.111, M.A. candidate in School or Clinical Concentration. Consent of Coordinator.

2001.561 (70.561) FOUNDATIONS OF REHABILITATION COUNSELING (3) The development of rehabilitation programs; their legal basis and historical background. The role of medical, psychological, educational and community resources in the rehabilitation program are explored. Client eligibility, determination, and counselor responsibilities will be reviewed. Prerequisite: 2001.101. Spring.

2001.563 (70.563) SYSTEMS OF PSYCHOTHERAPY (3) Course is designed to acquaint students with the more prominent schools of psychotherapy. Particular emphasis is placed on the psychotherapeutic aspect of educational and clinical settings. Prerequisites: 2001.350, 2001.361 or 2001.230, 2001.531. Spring.

2001.565 (70.565) PSYCHOTHERAPY AND BEHAVIOR CHANGE I (3) The first of a two semester sequence designed to acquaint the student through readings, lectures, and actual experience with the various theories and techniques currently utilized in behavior change including individual psychotherapy, family therapy, transactional analysis, rational emotive therapy and behavior modification. Psychotherapy and Behavior Change I may be taken without Psychotherapy and Behavior Change II. Prerequisite: Graduate standing in school or clinical psychology tracks.

2001.566 (70.566) PSYCHOTHERAPY AND BEHAVIOR CHANGE II (3) The second of a two semester sequence focused on the continued analysis of major psychotherapy approaches. Each student will conduct an intensive examination of a single psychotherapeutic approach. A seminar paper and a class presentation of the paper will be required. Prerequisite: 2001.565.

2001.567 (70.567) PSYCHO-SOCIAL ASPECTS OF DISABILITY (3) The effect of the psycho-social milieu on the disabled. Person's self-concept will be considered, and approaches to facilitating autonomy and self-actualizing goals in the disabled will be discussed. Prerequisite: graduate standing in psychology or consent of the instructor.

- 2001.568 [70.568] MEDICAL ASPECTS OF DISABILITY (3) For students in Rehabilitation Counseling and related areas. Structure and function of bodily systems, and implications of physical disabilities in coping with the problems of daily living. Prerequisite: 2001.101.
- 2001.570 [70.570] REFERRAL RESOURCES FOR THE SCHOOL AGE CHILD (3) A study of referral services for the enhancement of the emotional, vocational, and the behavioral adaptation of children in need of services beyond the classroom situation. The course attempts to give direct knowledge to the student of all such specialized facilities both school and community sponsored. Prerequisite: 2001.511. Summer.
- 2001.573-574 [70.573-574] ADVANCED EXPERIMENTAL PSYCHOLOGY I, II (4, 4) The first semester is comprised of experimentation in the field of human behavior, and the second will emphasize experimentation in the field of animal behavior. Prerequisites: Consent of department, 2001.111, 2001.261, or equivalent, Spring.
- 2001.575 [70.575] PROSEMINAR I (3) An intensive survey of basic issues and concepts in learning, perception, motivation, and physiological. Prerequisite: 2001.261 or equivalent.
- 2001.576 [70.576] PROSEMINAR II (3) An intensive survey of basic issues and concepts in social, developmental, personality, and abnormal. Prerequisite: 2001.261 or equivalent.
- 2001.577 [70.577] LEARNING (3) A thorough coverage of major learning theories and models. Prerequisite: Consent of department, 2001.305 or equivalent, Fall.
- 2001.579 [70.579] SEMINAR IN PSYCHOLOGY (2) Exploration of current developments in psychology. Topics dependent upon student and faculty interest.
- 2001.581 [70.581] ADVANCED HISTORY AND SYSTEMS OF PSYCHOLOGY (3) Ancient and modern psychological history; discussion of ancient history will draw heavily from both philosophy and physiology; discussion of modern history will develop psychology in various countries. The analysis of systems will include a study of functionalism, structuralism, behaviorism gestalt and psychoanalysis. Summer.
- 2001.584 [70.584] COLLEGE TEACHERS SEMINAR (3) Materials and procedures for producing successful students in lower level courses will be explored. Spring.
- 2001.585 [70.585] COLLEGE TEACHING PRACTICUM (3) Supervised teaching of introductory psychology. Prerequisite: 2001.584.
- 2001.587 [70.587] ADVANCED EXPERIMENTAL DESIGN I (3) An advanced treatment of descriptive and inferential statistical methods and design considerations. Prerequisite: 2001.111 or equivalent, Fall.
- 2001.588 [70.588] ADVANCED EXPERIMENTAL DESIGN II (3) An in-depth treatment of advanced analysis of variance designs and related techniques. Prerequisite: 2001.587 or equivalent, Spring.
- 2001.589 [70.589] MULTIVARIATE METHODS (3) Multivariate statistical methods useful in behavioral scientific research. Topics, correlation, regression, factor analysis, discriminant analysis. Prerequisite: 2001.587 or equivalent.
- 2001.591 [70.591] PROJECTIVE TECHNIQUES I (3) This is the first of a two-course sequence dealing with projective techniques. Credit will be awarded only upon completion of the first and second semester of the sequence. The first semester emphasizes an introduction to the administration, scoring and interpretation of projectives in current clinical use. Prerequisites: M.A. candidate in School or Clinical Concentration. Consent of coordinator. Fall.
- 2001.592 [70.592] PROJECTIVE TECHNIQUES II (3) The second of a two-semester sequence in projective techniques. This semester emphasizes the interpretation and appropriate transmission of projective data. Particular emphasis will be placed on the evaluation of learning problems. Prerequisites: 2001.591, M.A. candidate in School or Clinical Concentration. Consent of coordinator. Spring.
- 2001.605 [70.605] PRINCIPLES OF GUIDANCE (3) Aims at establishing a philosophy and gaining a knowledge of the principles of guidance. Includes an introduction to the literature of the field. Prerequisite: 2001.511 or equivalent. Fall, Spring, Summer.
- 2001.606 [70.606] INTRODUCTION TO CAREER DEVELOPMENT (3) This course is designed to familiarize students with aspects of career development, to introduce them to a variety of relevant resources and media and to assist them to integrate this knowledge by planning a program of career development for a specific group. Prerequisite: Graduate status.
- 2001.607 [70.607] OCCUPATIONAL INFORMATION (3) Provides students with knowledge of educational and vocational opportunities and community referral sources essential to a sound guidance program. Includes evaluation, classification and use of such information in the instructional program. Group guidance, counseling and placement. Prerequisite: 2001.605.
- 2001.608 [70.608] MEDIA IN CAREER EDUCATION (3) This course provides an introduction to the production of videotapes, films, filmstrips, slides and audiotapes pertaining to the world of work. Workshop procedures will be used to develop career education materials for use in a variety of employment settings. Prerequisite: 2001.607.
- 2001.611 [70.611] ANALYSIS OF THE INDIVIDUAL (3) Techniques available in studying the individual. Emphasizes data in the areas of vocational, educational and personal adjustment. Prerequisite: 2001.411. Fall, Spring, Summer.
- 2001.615 [70.615] TECHNIQUES OF COUNSELING (3) Counseling and therapy techniques used by counselors and other professional personnel working with children and adults. Prerequisite: 2001.430 or equivalent. Spring, Fall, Summer.
- 2001.621 [70.621] GROUP COUNSELING (3) This course is designed to survey the theories, principles, and techniques of group counseling. Some additional topics to be covered are the role of the leader, problems of member selection, evaluation of group progress, and the ethics and training of group counselors. Prerequisite: 2001.430.
- 2001.625 [70.625] COUNSELING OF MINORITY GROUPS (3) A study of the counseling function with emphasis upon minority group needs, counselor attitudes, and techniques. Special focus on counseling in the urban school setting and techniques to be used with minority students. Prerequisite: 2001.430.
- 2001.627 [70.627] USE OF TESTS IN COUNSELING (3) Practice in the use and analysis of techniques for understanding the individual with emphasis upon standardized procedures used in the public schools. Prerequisite: 2001.411. Fall.
- 2001.630 [70.630] COUNSELING THE ELEMENTARY SCHOOL CHILD (3) Study of the dynamics of child behavior, techniques of assessing and counseling. Study of the family, school, and community structures and their effect on the child. Prerequisite: 2001.430. Spring.
- 2001.645 [70.645] COUNSELING PRACTICUM I (3) Supervised experience in educational, vocational and personal counseling. Prerequisites: 2001.430 plus consent of coordinator. Credit will be granted for this course upon completion of 2001.646. Student must pass Advancement to Degree Candidacy Examination.

2001.646 (70.646) COUNSELING PRACTICUM II (3) Field experience in educational, vocational and personal counseling. Prerequisites: 2001.645 plus consent of coordinator. Fall, Spring.

2001.651 (70.651) PRACTICUM IN SCHOOL/CLINICAL PSYCHOLOGY (3) Provides an opportunity to participate in diagnostic, remedial and therapeutic planning as well as follow-up studies under supervision of certified psychologists. Prerequisites: 2001.520, 2001.591, 2001.592. M.A. Candidate in School or Clinical Concentration. Consent of Coordinator. Fall.

2001.652 (70.652) INTERNSHIP IN SCHOOL/CLINICAL PSYCHOLOGY (3) Each student must be a full-time student during the semester he enrolls in this course, typically the last semester of work. The student will be placed on

internship in a school or clinic depending upon his specific orientation. He will participate in the complete workings of that agency under the direct supervision of a practicing certified psychologist. Prerequisites: 2001.651. M.A. Candidate in School or Clinical Concentration. Consent of Coordinator. Spring.

2001.690 (70.690) SEMINAR IN SCHOOL/CLINICAL PSYCHOLOGY (3) Consideration of current practices, trends and evaluative techniques in School or Clinical Psychology. Prerequisite: Consent of coordinator. Fall. Open only to M.A. candidates in the School Psychology Program.

2001.699 (70.699) THESIS (3) Optional for students in Master of Arts for School Psychologists program. Required for students in Master's of Arts in General Psychology.



# Social Sciences

Coordinator: JOSEPH A. FALCO

This is an interdepartmental major made up of the Department of Economics and Political Science, the Department of Geography, the Department of History, and the Department of Sociology and Anthropology. The program is administered by a Committee composed of a representative from each discipline of the social sciences. The members of the Committee are: Joseph A. Falco, Professor of History, Chairman of the Committee and Coordinator of the Social Science Program; David Firman, Professor of Geography; Irwin Goldberg, Professor and Chairman, Department of Sociology and Anthropology; Herbert D. Andrews, Professor of History; Henry N. Sanborn, Professor of Economics.

The Program is designed for those students who do not wish to be confined to a major in a single social science discipline, but are interested in a broad education, transcending traditional department boundaries. It is useful for those students who plan to enter graduate school for an advanced degree in one of the social sciences; for those students who plan to enter professional schools for a degree in law, social service, or a phase of law enforcement; for those students who seek a broad background in preparation for employment in business and industry, or with a governmental agency. It is particularly designed for students planning to teach social studies at the secondary school level.

The major offers the student the choice of two distinct social science programs: a social science major in liberal arts or a social science major in secondary school teaching.

The requirements for the Social Science Major in Liberal Arts are 66 credit hours as follows: Economics 2204.101 and 102 (6 hours); Geography 2206.101 or 102, and one upper division course depending on the interest of the student (6 hours); History: 2205.241, 242 (6 hours); and 2205.145, 146 (6 hours); Political Science: 2207.101, 103,

107, 137, 207 — any two courses (6 hours); Sociology and Anthropology: 2299.101 and 2202.207 (6 hours); Plus: 30 hours of upper division courses selected from any of the social sciences with a minimum of nine hours in each of three disciplines selected. Twenty-four upper division credits will be earned at Towson.

The requirements for the Social Science Major in Secondary Teaching are 54 credit hours as follows: Economics: 2204.101 and 102 (6 hours); Geography: 2206.101 or 102, and one upper division course depending on the interest of the student (6 hours); History: 2205.241, 242 (6 hours); and 205.145, 146 (6 hours); Plus six hours in lower or upper division history electives to meet state certification requirements; Political Science: 2207.101, 103, 107, 137, 207 — any two courses (6 hours); Sociology and Anthropology: 2299.101 and 2202.207 (6 hours); Plus 12 hours upper division electives to be distributed among the various social sciences. It is expected the upper division courses will be taken at Towson.

## Transfer Students

It is expected that all transfer students in the social Science Program will earn at Towson State College a minimum of one-half the total number of credit hours required for the major.

## Degree Programs

A student may earn a Bachelor of Science or a Bachelor of Arts degree in secondary education, a Bachelor of Science or a Bachelor of Arts degree in Liberal Arts. In either program the Bachelor of Arts degree requires a foreign language. The language requirement is met by completing the intermediate course or its equivalent of a modern foreign language.



# Sociology and Anthropology

Professors: HOJJATI, KANDEL, KRANZLER, LEONS,  
TOLAND, GOLDBERG (Choirperson)  
Associate Professors: FISHER, SEDLACK, STANLEY  
Assistant Professors: FARIS, JONES, ROTHSTEIN, SCHEPER,  
SMITH, WOLF  
Instructors: COCKEY, PANKHURST

The purpose of the major in Sociology and Anthropology is to acquaint students with the methods and perspectives of these disciplines, to help them better understand the society in which they live, and societies with which they may have been unfamiliar and to prepare them for graduate study in either Sociology or Anthropology.

## BACHELORS DEGREE . . . SOCIOLOGY

### Requirements

Major — total — 30

2208.101	Introduction to Sociology	(3) _____
2208.381	Sociological Theory	(3) _____
2208.391	Sociological Theory	(4) _____

One of the following:

2001.111	Behavioral Statistics	(4) _____
1701.231	Basic Statistics	(3) _____

18 hours of electives offered by the department, at least 12 of which must be in courses at the 300-400 level. At least 12 of the required credits must be taken in residence at Towson.

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

## BACHELORS DEGREE . . . ANTHROPOLOGY

### Requirements

Major — total — 30

2202.207	Cultural Anthropology	(3) _____
2202.208	Human Evolution & Prehistory	(3) _____
2202.401	Anthropological Theory (Spring semester only)	(3) _____

One of the following:

2001.111	Behavioral Statistics	(4) _____
1701.231	Basic Statistics	(3) _____

18 hours of electives offered by the department of which no more than six may be in Sociology. Research Methods (2208.391) is strongly recommended. If taken, a total of 10 credits may be selected from among courses in Sociology. The following courses in linguistics may be credited toward the concentration: Comparative Grammar (1501.332); Historical Linguistics (1501.325); and Structural Linguistics (1501.327). At least 12 credits are to be selected from courses at the 300-400 level. At least 12 of the required credits must be taken in residence at Towson.

_____	(3) _____
_____	(3) _____
_____	(3) _____

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

### No Minor is Available in Sociology/Anthropology

Transfer of courses from Departments of Sociology and/or Anthropology in public colleges and universities in Maryland are routinely made; from other institutions upon assessment of merit. For courses taken in other departments for which a student seeks credit, evidence as to content and qualification of instructor are generally required.

For Sociology concentrates it is strongly recommended that a statistics course (2001.111 or 1701.231) be taken no later than the first semester of the junior year; that Research Methods (2208.391) be taken in the semester immediately following that Sociological Theory (2208.381) be taken in the first semester of the senior year but not at the same time as Research Methods.

For Anthropology concentrates a reminder, that Anthropology Theory is given in the spring semester only.

## SOCIOLOGY COURSES (2208)

### Lower Division — Undergraduate

2208.101 (80.101) INTRODUCTION TO SOCIOLOGY (3) Sociological concepts, theories, methods; a study of society and culture; the influence of the social environment on individual behavior.

2208.203 (80.203) THE FAMILY (3) The family is the basic group in human societies; its development; its relation to other social institutions; the family in modern industrial societies. Prerequisite: SOCI 2208.101.

2208.231 (80.231) SOCIAL PROBLEMS (3) Problems in social relations created by the organization of society, exploration of alternative means of achieving social goals. Prerequisite: SOCI 2208.101.

2208.241 (80.241) BLACKS IN AMERICA: MYTHS AND REALITY (3) Focus on prevailing myths regarding black society, the reasons why such myths have developed, and the reality which contradicts these myths. Prerequisite: SOCI 2208.101.

### Upper Division — Undergraduate and Graduate

2208.311 (80.311) INDIVIDUAL AND SOCIETY (3) A social sociological approach to the inter-relationships of the individual and his social and cultural environment; behavioral characteristics resulting from social experience. Prerequisite: SOCI 2208.101.

2208.321 (80.321) IDEOLOGY, POWER AND SOCIETY (3) Influence of the structure of society and its political conflicts on the ideas which men hold and in the name of which they struggle: the social and political sources of social movements and belief systems, the industrial society and its influence on the nature of masses and elites; the socio-political role of intellectuals. Prerequisite: SOCI 2208.101.

- 2208.323 (80.323) **SOCIAL CHANGE** (3) A sociological analysis of the sources, process and consequences of social change. Prerequisite: SOCI 2208.101.
- 2208.325 (80.325) **COLLECTIVE BEHAVIOR** (3) Study of unorganized and organizing groups and their impact on society: crowds, mobs, riots and other processes of disruptive and constructive change. Prerequisite: SOCI 2208.101.
- 2208.327 (80.327) **URBAN SOCIOLOGY** (3) Survey of the theoretical and sociological conceptualizations of modern western industrial cities. Prerequisite: SOCI 2208.101.
- 2208.329 (80.329) **DEMOGRAPHY** (3) Social, economic, and political problems related to changes, distribution and movement of population trends in the U.S. and the world. Prerequisite: SOCI 2208.101.
- 2208.331 (80.331) **ORGANIZATIONS** (3) Structure and functioning of large scale organizations; formal and informal aspects of bureaucracies in business, government, politics, education and other institutional spheres of society. Prerequisite: SOCI 2208.101.
- 2208.333 (80.333) **POLITICAL SOCIOLOGY** (3) Contemporary relevance of the fundamental ideas regarding the relationship of the social and political systems; the significance of social and political democratization; class struggles and revolution the influence of government bureaucracy. Prerequisite: 2208.101.
- 2208.335 (80.335) **MEDICAL SOCIOLOGY** (3) A study of social and cultural perspectives on illness; demographic trends; the health professions; and institutions for the delivery of health care services. Prerequisite: SOCI 2208.101.
- 2208.337 (80.337) **SOCIOLOGY OF EDUCATION** (3) Sociological analysis of education as a basic social institution; formal and informal organizations of education systems; relationship to socialization; major social trends in education; concept of academic freedom. Prerequisite: SOCI 2208.101.
- 2208.339 (80.339) **COMMUNITY ORGANIZATION** (3) The organization of the community as a vehicle for identifying and meeting human needs; processes and techniques of community planning and development, traditional and contemporary. Prerequisite: SOCI 2208.101.
- 2208.341 (80.341) **SOCIAL STRATIFICATION** (3) The nature of social stratification; relationship of social mobility to social organization; social class structure in traditional and dynamic societies. Prerequisite: SOCI 2208.101.
- 2208.343 (80.343) **MINORITY GROUPS** (3) An examination of intergroup life as an aspect of society; conflicts between races, ethnic groups, and minorities; prejudice, segregation and integration. Prerequisite: SOCI 2208.101.
- 2208.351 (80.351) **SOCIAL DEVIANCE** (3) Deviance as an aspect of social living; the problem of understanding conformity and deviance; identification of deviants; society's response to deviant behavior. Prerequisite: SOCI 2208.101.
- 2208.353 (80.353) **CRIMINOLOGY** (3) The nature of crime; factors underlying criminal behavior; police, courts, law, and correctional institutions. Prerequisite: 2208.101.
- 2208.355 (80.355) **JUVENILE DELINQUENCY** (3) A study of delinquency; the process of socialization and delinquent behavior in society; prevention and treatment of delinquency. Prerequisite: SOCI 2208.101.
- 2208.357 (80.357) **SOCIAL WELFARE** (3) Sociological analysis of social welfare institutions and the functions they perform within modern societies. Prerequisite: SOCI 2208.101.
- 2208.359 (80.359) **SOCIOLOGY OF AGING** (3) Examination of social factors in aging from the viewpoint of the individual, the group and society; socialization process and old age, identity and social roles, loneliness and alienation; demographic aspects of aging; societal definitions, norms, values, dilemmas, and responses to the aging; evaluation of research in social gerontology. Prerequisite: SOCI 2208.101.
- 2208.370-379 (80.370-379) **TOPICS IN SOCIOLOGY** (3) An examination of current topics in sociology designed for non-majors as well as majors. The content of the course will depend upon mutual faculty and student interest. Prerequisite: SOCI 2208.101.
- 2208.381 (80.381) **SOCIOLOGICAL THEORY** (3) Major systems of sociological theory; the works, assumptions, and implications of major European and American schools. Prerequisites: Junior standing; SOCI 2208.101; and nine additional hours of SOCI.
- 2208.391 (80.391) **RESEARCH METHODS** (4) A consideration of methodology of sociological research; the various steps in conducting research projects, from statement of the problem to final analysis of data. Prerequisites: SOCI 2208.101; nine additional hours of SOCI; either PSYC 2001.111 or MATH 1701.231.
- 2208.470-479 (80.470-479) **SPECIAL TOPICS IN SOCIOLOGY** (3) An examination of current topics in sociology designed for junior and senior majors. The content of the course will depend upon mutual faculty and student interest. Prerequisites: SOCI 2208.101 and six additional hours of SOCI.
- 2208.481 (80.481) **ADVANCED SOCIOLOGICAL THEORY** (3) Critical analysis of emerging theoretical schools. Attention will be given to contemporary theoretical problems. Prerequisites: 2208.101 and 2208.381.
- 2208.485 (80.485) **SEMINAR IN SOCIOLOGY** (3) Exploring and analyzing major areas of sociology. For senior students with a major in sociology. Prerequisites: SOCI 2208.381 and consent of instructor.
- 2208.495 (80.495) **INDEPENDENT RESEARCH** (3) Supervised research and sociological investigation involving library and/or field experiences, and culminating in a written report. Prerequisites: SOCI 2208.391 and SOCI 2208.381 and consent of instructor.
- 2208.497 (80.497) **SEMINAR IN SOCIOLOGY (Honors)** (3) Exploring and analyzing major areas of sociology. Prerequisite: Consent of the Honors Coordinator.
- 2208.498 (80.498) **READINGS IN SOCIOLOGY (Honors)** (4) A survey of the relevant scholarly literature under the guidance of a staff member who will direct the student's research. Prerequisite: Consent of the Honors Coordinator.
- 2208.499 (80.499) **HONORS THESIS** (4) Supervised research and sociological investigation involving library and/or field experiences and culminating in a written report. Prerequisite: Consent of the Honors Coordinator.

## ANTHROPOLOGY COURSES (2202)

### Lower Division — Undergraduate

- 2202.207 (10.207) **CULTURAL ANTHROPOLOGY** (3) Introduction to social and cultural anthropology; cultural theory, social structure, human ecology, language and culture, technology, religion, art, and literature.
- 2202.208 (10.208) **HUMAN EVOLUTION AND PRE-HISTORY** (3) The study of man: his biological and cultural development through time.



## Upper Division — Undergraduate and Graduate

- 2202.321 (10.321) SEX ROLES IN CROSS CULTURAL PERSPECTIVE (3)** Materials from a variety of cultures will be used to illustrate and analyze the roles of women and men within the major institutional aspects — the family, economics, politics and religion. Particular attention will be devoted to the similarities and differences in sex role patterns within and between the cultures. Prerequisite: SOCI 2208.101 or ANTH 2202.207.
- 2202.346 (10.346) WEALTH, POWER & POLITICS IN CROSS-CULTURAL PERSPECTIVE (3)** Political systems and the distribution of power in egalitarian, ranked, and stratified societies will be examined. Prerequisite: SOCI 2208.101 or ANTH 2202.207.
- 2202.364 (10.364) RELIGION, MAGIC AND WITCHCRAFT (3)** The world view, beliefs and rituals of selected non-literate peoples considered with reference to religion as a universal category of human culture. Prerequisite: ANTH 2202.207.
- 2202.365 (10.365) NORTH AMERICAN INDIANS (3)** The traditional culture of native North Americans and their socio-cultural place in modern American society will be examined. Prerequisite: ANTH 2202.207.
- 2202.366 (10.366) SOUTH AMERICAN INDIANS (3)** Survey of the cultures of the native peoples of South America in Pre-Columbian times and the situation of contemporary tribal peoples of South America. Prerequisite: ANTH 2202.207.
- 2202.367 (10.367) PEOPLES OF THE MIDDLE EAST (3)** Survey of the Middle East as a cultural area with emphasis on culture change. Prerequisite: ANTH 2202.207.
- 2202.369 (10.369) TRADITION AND REVOLUTION IN LATIN AMERICAN SOCIETY (3)** An anthropological perspective will be brought to bear on contemporary Latin American culture and society. The Pre-Columbian heritage, the traditional synthesis and the struggle to modernize and develop will be examined. Prerequisites: SOCI 2208.101, ANTH 2202.208 or ANTH 2202.207.
- 2202.370-379 (10.370-379) TOPICS IN ANTHROPOLOGY (3)** An examination of current topics in Anthropology designed for non-majors as well as majors. The content of the course will depend upon mutual faculty and student interest. Prerequisite: ANTH 2202.207.

- 2202.381 (10.381) ARCHAEOLOGICAL METHODS AND THEORY (3)** Methods of excavating and recording archaeological data. Investigation of problems of current research interest. Prerequisite: ANTH 2202.207 or 2202.208.
- 2202.383 (10.383) NORTH AMERICAN ARCHAEOLOGY (3)** Regional survey of the prehistory of native North American cultures. Prerequisite: ANTH 2202.207 or 2202.208.
- 2202.385 (10.385) ARCHAEOLOGY OF THE AMERICAN SOUTHWEST (3)** An examination of the pre-historic cultures of the Southwest: Anasazi, Hohokam, and Mogollon. Detailed description of the remains. Prerequisites: ANTH 2202.207 or 2202.208 and consent of instructor.
- 2202.388 (10.388) PEASANT CULTURES (3)** The course will focus on the rural agricultural population of modern states; their traditional lifeways and the changes being wrought by modernization. Prerequisite: SOCI 2208.101 or ANTH 2202.207.
- 2202.401 (10.401) ANTHROPOLOGICAL THEORY (3)** Survey of the theoretical contributions made by American, British and Continental anthropologists. Prerequisites: ANTH 2202.207 plus nine hours of ANTH.
- 2202.470-479 (10.470-479) SPECIAL TOPICS IN ANTHROPOLOGY (3)** An examination of current topics in Anthropology designed for junior and senior majors. The content of the course will depend upon mutual faculty and student interest. Prerequisites: ANTH 2202.207 and six additional hours of ANTH.
- 2202.495 (10.495) INDEPENDENT RESEARCH (3)** Supervised research and anthropological investigation leading to preparation of a research project or a supervised field experience. For senior students with a concentration in anthropology. Prerequisites: At least 12 credits in ANTH and consent of department chairperson.
- 2202.498 (10.498) READINGS IN ANTHROPOLOGY (Honors) (4)** A survey of the relevant scholarly literature under the guidance of a staff member who will direct the student's research. Prerequisite: Consent of Honors Coordinator.
- 2202.499 (10.499) HONORS THESIS (4)** Supervised research and anthropological investigation involving library and/or field experiences and culminating in a written report. Prerequisite: Consent of the Honors Coordinator.



# Theatre Arts

Professor: BERMAN (Chairman), GILLESPIE

Associate Professors: MANLOVE

Assistant Professor: BAKER, LOESCHKE

Instructors: COBERG

Assistant Instructors: KITZ, KLEBAN

The curriculum in the department is designed to provide the best possible learning and training for the student wishing to major in theatre arts. The program is designed to provide, in cooperation with other departments, a broad liberal education as well as specialized professional training with the emphasis placed upon skill as well as knowledge. The main emphasis is the creation of an artistic point of view on the part of the students.

## Major in Theatre Arts

The major in theater arts is time consuming and physically demanding. Majors must be free to participate in theater activities evenings and weekends.

Participation in the college drama productions is a part of the educational program of theater arts majors. All theater majors must participate in production seminars each semester.

At the end of the sophomore year, students must be approved individually by the department each semester in order to continue in the program.

Students transferring from other institutions and planning to major in theatre arts at Towson are required to complete a minimum of 20 hours of theatre arts courses in residence at Towson.

## The Curriculum

Majors must take a minimum of 36 credit hours in theatre or dramatic literature, including the following required courses: 1007.105, 1007.106, 1007.107, 1007.108, 1007.499, and at least 2 courses from the following: 1007.411, 1007.412, 1007.413, 1007.493, 1007.494, 1007.495, 1007.496, 1007.497, 1007.498, 1007.480, 1007.481, 1007.482 and a minimum of eight to ten additional elective hours in theatre to make a total of 36 credit hours. Each student will work out an individualized program in conjunction with a faculty advisor. All students are required to successfully participate in production seminar each semester.

## Curriculum for a Minor in Theatre Arts

Any 18 hours in theatre courses approved in advance, as a minor, by the director of theatre.

## THEATRE ARTS COURSES (1007)

### Service Division

1007.027 (86.027) THEATRE MANAGEMENT (0) Organization and control of the business, box office, house and publicity programs of the theatre. Prerequisites: None — offered on demand.

1007.109 (86.109) DRILL IN MOVEMENT FOR THE STAGE (1) Analysis of individual problems in movement for the stage, and drill in corrective exercises. Majors only.

1007.110 (86.110) DRILL IN VOICE FOR THE STAGE (1) Analysis of individual problems in voice for the stage, and drill in corrective exercises. Majors only.

### Lower Division — Undergraduate

1007.103 (86.103) INTRODUCTION TO THE THEATRE (3) Theatrical experience through study of the various types,

styles, and production processes of the theatre. Theatre as a public art and its relationship to our culture.

1007.105 (86.105) THEATRE AND THE HUMANITIES I (3) History of the Theatre and its relation to the Arts and Sciences. Greek to Medieval period. Meets three periods for lecture and one period for discussion.

1007.106 (86.106) THEATRE AND THE HUMANITIES II (3) History of the Theatre and its relation to the Arts and Sciences. Renaissance period. Meets three periods for lecture and one period for discussion.

1007.107 (86.107) THEATRE AND THE HUMANITIES III (3) History of the Theatre and its relation to the Arts and Sciences. Age of Reason and Romantic period. Meets three periods for lecture and one period for discussion.

1007.108 (86.108) THEATRE AND THE HUMANITIES IV (3) History of the Theatre and its relation to the Arts and Sciences. The Modern World. Meets three periods for lecture and one period for discussion.

1007.141 (86.141) GRAPHIC TECHNIQUES FOR THE THEATRE (2) A course in the standard graphic practices of the draftsman. The emphasis will be on the reading and producing of working drawings, for lighting, costume, and scenic design.

1007.143 (86.143) VISUAL ELEMENTS IN THEATRE (3) An examination of visual elements in theatrical production to aid the designer, director, and actor to think in terms of visual metaphors for the stage.

1007.201 (86.201) TECHNIQUES IN THEATRE DESIGN (3) Practice in such techniques as drafting, elevation, drapery sketching, figure drawing, and rendering techniques to prepare a student to work in set or costume design.

1007.221 (86.221) ACTING I (3) Theory and practice of acting. The development of the actor's imagination and techniques through improvisations, pantomimes, exercises, and simple scenes.

1007.222 (86.222) ACTING II (3) Theory and practice of acting. Work in role analysis and character building. Prerequisites: 1007.221 and consent of instructor.

1007.231 (86.231) MIME I (3) Basic techniques of the art of Mime. Exercise work in images and illusions. Three credit hours, four contact hours.

1007.232 (86.232) MIME II (3) Improvisations with images and illusions. Three credit hours, four contact hours.

1007.241 (86.241) COSTUME HISTORY AND DESIGN: EGYPT TO RENAISSANCE (4) Study of costume from the ancient Egyptian civilization to the Renaissance. Costume design and construction. Work on crews for college drama productions.

1007.242 (86.242) COSTUME HISTORY AND DESIGN: ELIZABETHAN TO 1940 (4) Study of costume from the Elizabethan to 1940. Costume design and construction. Work on costume crews for college drama productions.

1007.245 (86.245) STAGE MAKEUP I (2) Survey of materials and study of theories and techniques of stage makeup. Class meets for two hours per week.

1007.246 (86.246) STAGE MAKEUP II (2) Advanced stage makeup using materials such as home latex, rubber, collodion, and mask making and doing complete detailed character makeups. Prerequisite: 1007.245.

1007.251 (86.251) STAGECRAFT (3) Technical aspects of play production including scene construction, scene painting, property building and stage lighting. (Work on technical crews for college drama productions required.)

- 1007.261 (86.261) ACTING FOR MUSICAL THEATRE I (3) An introduction to the acting problems inherent in Musical Theatre performance. Theory and practice. The development of the actor's awareness, imagination, and technique through lectures, improvisations, exercises, and ensemble scenes. Prerequisite: 1007.221 or consent of instructor.
- 1007.262 (86.262) ACTING FOR MUSICAL THEATRE II (3) Theory and practice of acting in a musical theatre situation. Work in scene and role analysis, character development, and personal performing technique. Prerequisites: 1007.261 and consent of instructor.
- 1007.285 (86.285) BEGINNING THEATRE WORKSHOP (6) Open to students who have not had performance courses in the theatre. Course will provide intensive experience in acting, mime, voice production, directing, and musical theatre. Students will participate in, observe, and, when appropriate, assist college faculty with performance and technical theatre activities.
- Upper Division — Undergraduate and Graduate**
- 1007.307 (86.307) THEATRE ARTS FOR CHILDREN (3) Theory and techniques of playmaking for children. Lecture, demonstration, and participation in pantomime, improvisation, and story dramatization.
- 1007.311 (86.311) THEATRE PRODUCTION (4) An examination of the nature and philosophy of educational and community theatre with practical work in directing, publicity, management, and the coordination of technical elements. Fifteen hours of work required with high school, community, or college theatre organizations. Prerequisites: 1056.221, 1007.251, 1007.245, 1501.312, and 1007.221 or 1007.231.
- 1007.321 (86.321) ACTING III (3) An examination of the problems of the actor in Shakespearean roles. Both theory and practice of Shakespearean acting are dealt with. Prerequisites: 1007.222, limited to majors and consent of instructor.
- 1007.331 (86.331) PLAY DIRECTING I (3) Fundamentals of play directing through exercises, directorial play analysis, and projects in directing short scenes. Prerequisites: 1007.103 or 1007.105 and 1007.221 or consent of instructor.
- 1007.355 (86.355) STAGE LIGHTING (3) Theory of light and electricity with emphasis on the planning of light plots. Aesthetic effort of stage lighting and problems of lighting small stages with minimum equipment. Prerequisite: 1007.251 or consent of instructor.
- 1007.361 (86.361) DESIGN FOR THE STAGE (3) Theory and practice of designing scenery for the stage. Includes a study of the relationship of the set design to the script and other elements of production; and examination of research techniques in preparation for scene designing and practice in designing scenery for many styles and types of drama. Prerequisite: 1007.251 or consent of instructor.
- 1007.371 (86.371) THEATRE GAMES I (1) Exercises in acting designed to develop the individual's creativity and encourage work on personal acting techniques. Prerequisite: 1007.221.
- 1007.372 (86.372) THEATRE GAMES II (1) Exercises in acting designed to develop the individual's creativity and encourage work on personal acting technique. Prerequisite: 1007.221.
- 1007.401 (86.401) THEATRE AS A PROFESSION (1) Working conditions, unions, employment opportunities in the theatre. Preparation of professional credentials, audition material, etc. Prerequisite: Theatre Arts major or consent of instructor.
- 1007.407 (86.407) THEATRE ARTS FOR CHILDREN — ADVANCED (2) Practical experience in directing and guiding Theatre Arts with children in a classroom or other arranged situation. Prerequisite: 1007.307 — Theatre Arts for Children.
- 1007.421 (86.421) PLAY DIRECTING II: THE CONTEMPORARY PLAY (3) Preparation techniques and directional approaches to contemporary drama. Individual directing projects of scenes from representative contemporary dramas. Prerequisite: 1007.331 or consent of instructor.
- 1007.431 (86.431) DIRECTING THE PERIOD PLAY (3) Research techniques and directorial approaches to period drama. Individual directing projects of scenes from representative period dramas. Prerequisite: 1007.331 or consent of instructor.
- 1007.441 (86.441) COSTUME DESIGN (3) Study of the theories, principles, of costume design and practice in designing costumes for the stage. Including a study of the relationship of color, texture, and historical period to the script and style of a theatrical production. Also practical use of costume research techniques in preparing designs. Experience in designing costumes for many historical periods and styles of plays.
- 1007.471 (86.471) PRODUCING STORY THEATRE IN THE SCHOOLS (3 credits — undergraduate; 2 credits — graduate) The history, theory, and techniques of story theatre. The application of story theatre to all levels of education, with emphasis on the secondary schools. Prerequisites: One Speech or Drama course plus teaching experience, or consent of the instructor.
- 1007.473 (86.473) WORKSHOP IN STORY THEATRE (3 credits — undergraduate; 2 credits — graduate) Practical experience in producing story theatre. Each student will direct at least one story theatre. Each student will direct at least one story theatre production and perform in at least one story theatre production and perform in at least one story theatre production. Prerequisite: The workshop should only be taken concurrently with 1007.471.
- 1007.475 (86.475) USING THEATRE GAMES TECHNIQUES IN THE SCHOOLS (3 credits — undergraduate; 2 credits — graduate) The theory and techniques of theatre games. The application of the problem-solving techniques of theatre games to all levels of education, with emphasis on the secondary schools. Prerequisites: One Speech or Drama course plus teaching experience, or consent of the instructor.
- 1007.477 (86.477) WORKSHOP IN THEATRE GAMES TECHNIQUES (3 credits — undergraduate; 2 credits — graduate) Practical experience in utilizing theatre games techniques in rehearsal and performance. Each student will develop, rehearse, and produce a project and will also perform in at least one other project. Prerequisite: The workshop should only be taken concurrently with 1007.475.
- 1007.485 (86.485) ADVANCED THEATRE WORKSHOP FOR SECONDARY SCHOOL TEACHERS (6) Open to graduate students and undergraduate students of junior and senior standing who have had courses in theatre and/or practical experience in theatre. May be taken for graduate or undergraduate credit. Students will work with high school students in theatre projects and will have opportunities to design and/or direct. Interested applicants should contact the Director of the Summer Theatre Workshop at the earliest opportunity, preferably June 1.
- 1007.486 (86.486) WORKSHOP IN THEATRE PRODUCTION FOR SECONDARY SCHOOL TEACHERS (6) Course is open to graduate students and undergraduate students of junior or senior standing who wish to gain practical experience in working with the technical theatre production elements of secondary school theatre. May be taken for

graduate or undergraduate credit. Students will work with the College Theatre Department's costume and scenic design staff in conjunction with the Theatre Workshop for High School Students. Prerequisite: Upper division or graduate standing.

1007.487 [86.487] PROFESSIONAL THEATRE SEMINAR (12) A semester's internship in a resident theatre company. For majors only. Prerequisite: Approval of director of theatre.

1007.493 [86.493] PROBLEMS IN THEATRE I (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.

1007.494 [86.494] PROBLEMS IN THEATRE II (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.

1007.495 [86.495] PROBLEMS IN THEATRE III (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.

1007.496 [86.496] PROBLEMS IN THEATRE IV (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.

1007.497 [86.497] PROBLEMS IN THEATRE V (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.

1007.498 [86.498] PROBLEMS IN THEATRE VI (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.

1007.411 [86.411] PROBLEMS IN ACTING OR DIRECTING I (1-3) An upper level course designed to deal with the student's acting or directing problems on an advanced

level. Prerequisites: 1007.221, 1007.222, 1007.231, majors only and consent of instructor.

1007.412 [86.412] PROBLEMS IN ACTING OR DIRECTING II (1-3) An upper level course designed to deal with the student's acting or directing problems on an advanced level. Prerequisites: 1007.221, 1007.222, 1007.231, majors only and consent of instructor.

1007.413 [86.413] PROBLEMS IN ACTING OR DIRECTING III (1-3) An upper level course designed to deal with the student's acting or directing problems on an advanced level. Prerequisites: 1007.221, 1007.222, 1007.231, majors only and consent of instructor.

1007.480 [86.480] PROBLEMS IN DESIGN AND TECHNICAL THEATRE I (1-3) An advanced course enabling the student to derive credit for special problems in the area of Technical Theatre. Prerequisites: 1007.201, 1007.241, 1007.251, majors only and consent of instructor.

1007.481 [86.481] PROBLEMS IN DESIGN AND TECHNICAL THEATRE II (1-3) An advanced course enabling the student to derive credit for special problems in the area of Technical Theatre. Prerequisites: 1007.201, 1007.241, 1007.251, majors only and consent of instructor.

1007.482 [86.482] PROBLEMS IN DESIGN AND TECHNICAL THEATRE III (1-3) An advanced course enabling the student to derive credit for special problems in the area of Technical Theatre. Prerequisites: 1007.201, 1007.241, 1007.251, majors only and consent of instructor.

1007.499 [86.499] SPECIAL PROJECT IN THEATRE RESEARCH (3) Seminar to demonstrate the student's proficiency in an area of theatre research agreed upon by the student and his advisor. Projects may be undertaken in the following areas: Theatre History; Dramatic Structure and Criticism; Directing; Stage, Lighting and Costume Design. All projects must entail research and the reportage of such research in the form of a thesis paper, which must adhere to high standards of scholarly writing. Prerequisites: Senior major or graduate standing and 1007.105, 1007.106, 1007.107, 1007.108.







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Vice President

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Vice President

## OFFICE OF THE PRESIDENT

JAMES L. FISHER  
President of the College  
Professor, Psychology

JOAN M. BRISKIN  
Assistant to the President

CHARLES A. HASLUP  
Assistant to the President,  
Associate Professor, Music

ANNETTE C. FLOWER  
Special Assistant to the President and  
Affirmative Action Officer  
Associate Professor, English

## ACADEMIC AFFAIRS

KENNETH A. SHAW  
Vice President for Academic Affairs and  
Dean of the College  
Associate Professor, Sociology

GILBERT A. BRUNGARDT  
Associate Dean of the College  
Professor, Music

RIA FRIJTERS  
Associate Dean of the College  
Professor, Business Administration

BILLY D. HAUSERMAN  
Associate Dean of the College  
Professor, Education

NORMAN L. SHEETS  
Associate Dean of the College  
Professor, Physical Education

JACK W. TAYLOR  
Associate Dean of the College

JULIUS CHAPMAN  
Associate Dean of the College  
Minority Students Relations

WILFRED B. HATHAWAY  
Dean of Graduate Studies,  
Professor, Biology

FREDERICK C. ARNOLD  
Associate Director of Graduate Studies

MICHAEL T. MURPHY  
Dean of Evening and Summer Division

FRANCES L. MINER  
Associate Director of Evening and  
Summer Division

JOHN M. BOWEN  
Associate Director of Evening and  
Summer Division

JOHN HILD  
Associate Director of Evening and  
Summer Division

FRANCES REPLOGLE  
ELLEN KLEYLEIN  
FREDERICK A. BIANCO  
Academic Coordinators for  
Evening and Summer Division

MICHAEL L. MAHONEY  
Director of Admissions

LINDA COLLINS  
Associate Director of Admissions

VIVIANNE M. LEE  
Associate Director of Admissions

ALLEN MOSLEY  
Admissions Counselor

GERARD A. SARTORI  
Registrar

DONALD P. DEAN  
Associate Registrar

WILLIAM J. REULING  
Associate Registrar

ARTHUR N. ROGERS, III  
Coordinator of Veterans Affairs

EDWIN F. SASAKI  
Director of Academic Systems Research

LINDA J. FREDERICK  
Assistant Director of Academic Research  
Systems

BERNARD G. TAYLOR  
Director, Learning Resources Center  
and Associate Professor of Education

LUCILLE NASS  
Director, Day Care Center

HARRIET D. GRIFFIN  
Director of Financial Aid

LINDA T. SCHULTZ  
Assistant Director of Financial Aid

VICTORIA EDWARDS  
Assistant Director of Financial Aid

## STUDENT SERVICES

DOROTHY SIEGEL  
Vice President for Student Services

LONNIE McNEW  
Assistant to the Vice President

THOMAS P. KNOX  
Associate Dean of Students

PATRICK C. PHELAN, JR.  
Director of Health Center

CHARLES F. O'DONNELL  
College Physician

ESTHER R. KELLY, R.N.  
Supervisor of Health Center

*Staff Nurses*

THERESA MCNEIR, R.N.

PATRICIA HASELBARTH, R.N.

DORIS HACKENBERRY, R.N.

GLADYS SYPHERS, R.N.

EILEEN ALLAN, L.P.N.

JOSEPH STRYLOWSKI  
Acting Director of Orientation

PATRICIA OUTLAW  
Director, Study Skills Support  
Services Center

VICTORIA MOSLEY  
Coordinator of Tutorial Services

KAREN BLAIR  
Reading Specialist  
Coordinator of Language Arts Services

CHARLES E. MALOY  
Director, Counseling Center

JAMES SPIVACK  
Associate Director

BETTYE FLOYD  
Counselor

RUTH LISANSKY  
Counselor

HENRY MILLER  
Senior Counselor

MARLENE WALKER  
Counselor

HELEN WILDS  
Counselor

HARRIET DOUTHIRT  
Director of Day Care Center

PAMELA RUSSELL  
Teacher

VANCE DEGENOVA  
Teacher

DR. SAYERS BRENNER

DR. CECILIA SCHOKET

Co-Directors of Psychiatric Services

## BUSINESS AND FINANCE

WAYNE N. SCHELLE  
Vice President, Associate Professor,  
Business Administration

ROBERT M. WOLF  
Assistant to the Vice President

H. WILLIAM BAUERSFELD, JR.  
Director of Business Services

CHARLES J. ECKELS  
Special Services Manager

EDWARD M. WILLIAMS  
Assistant Manager, Special Services

JOHN R. MILLER  
Purchasing Agent

JOSEPH S. ROBERTS  
Material Manager

GERALD W. SMITH  
Office Services Manager

TERRENCE C. SMITH  
Director of Auxiliary Services

H. AL DUKE, JR.  
Book Store Manager

MARY LEE FARLOW  
Director of Residence

MARK LONDON  
College Center Operations Manager

FRED G. BANK  
Director of Personnel

JOHN J. BAROCH  
Assistant Director of Personnel

HOWARD E. STEVENS  
Personnel Training and Development  
Manager

LINDA KELLY  
Safety Coordinator

BARBARA A. HODNETT  
Personnel Associate and Office Manager

DONALD N. McCULLOH  
Director of Finance and  
Systems Management

S. JOSEPH CREEL  
Associate Director for Accounting,  
Auditing, and Budgeting

ZELDA SCHUMAN  
Budget Preparation and  
Control Supervisor

RONALD E. GARRISON  
Assistant Director for Analysis  
and Forecasting

EDWARD B. QUINN, JR.  
Assistant Director for  
Financial Operations

STEPHEN R. KRUBA  
Data Systems Manager

ROBERT F. PREVILE  
Data Center Supervisor

GENE E. DAWSON  
Director of Campus Police

GREG ROEPKE  
Assistant Director of Campus Police

LEON D. HERRING  
Director of Physical Plant

JAMES J. WOODS  
Assistant Director of Physical Plant

RICHARD BUTLER  
Utilities Manager

W. THOMAS MURPHY  
Engineering Manager

JOHN H. SUTER  
Director of Campus Planning

ALFRED J. WALSH  
Director of Food Service

ROY WHITLEY  
Associate Director, Food Service

MEL BLACKBURN  
Business Manager, Food Service

CATHIE A. KNIGHTON  
Catering Manager

## INSTITUTIONAL DEVELOPMENT

PAUL E. WISDOM  
Vice President, Associate Professor,  
General Studies

ADELE KATZ LOEW  
Assistant to the Vice President

ROGER AHRENS  
Director of Endowments and Grants

WILLIAM A. CAREY  
Director of News and  
Publications Services

W. MICHAEL DUNNE, JR.  
Associate Director

BRENDA R. FERGUSON  
Associate Director

PETER J. SCHLEHR  
Associate Director

PATRICIA K. HEARN  
Director of Development

JOHN HORST, JR.  
Director of Alumni Services

FRANCIS J. LEMIRE  
Director of Placement

## PROFESSIONAL LIBRARIANS

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Director, Albert S. Cook Library

DOROTHY W. REEDER, A.B., B.S.,  
M.A.L.S.  
Librarian Emeritus

MURIEL L. BULLOCK, A.B., M.S. in L.S.  
College Librarian I, Bibliographic  
Searching

DOROTHY CHOW, B.A., M.S. in L.S.  
College Librarian IV, Acquisitions

JANE CUPIT, B.A., M.L.S.  
College Librarian II, Bibliographic  
Searching

MARCELLA EUSTIS, B.A., M.L.S.  
College Librarian II, Audio Visual

LOUISE H. FORSHAW, B.A., M.S. in L.S.  
College Librarian II, Reference

ELEANORE O. HOFSTETTER, B.S., M.S.  
in L.S., M.A.  
College Librarian VI, Head of  
Public Services

MARGARET HUANG, B.Ed., M.S. in L.S.  
College Librarian II, Cataloging

HELEN P. KALTENBORN, B.A., M.A.  
College Librarian VI, Head of  
Technical Services

JESSELYN LAMB, A.B., M.A. in L.S.  
College Librarian III, Cataloging

ANNE L. MILLER, B.S., M.S. in L.S.  
College Librarian II, Teaching Aids

SUSAN M. MOWER, B.A., M.S. in L.S.  
College Librarian II, Reference

JANE PARSONS, A.B., B.S. in L.S.  
College Librarian III, Serials

GRACE M. SCHROEDER, B.S., M.L.S.  
College Librarian II, Cataloging

JANICE B. SHOTWELL, A.B., M.S. in L.S.  
College Librarian I, Cataloging

RICHARD T. SHOTWELL, A.B., M.S.  
in L.S.  
College Librarian III, Reference

ROBERT E. SHOUSE, B.A., M.S. in L.S.  
College Librarian IV, Reference

NENITA VALINO, B.S.E., M.L.S.  
College Librarian III, Cataloging

ELIZABETH VAN ARSDALE, A.B., M.S.  
in L.S.  
College Librarian IV, Circulation

AGNES E. ZAMBOKY, B.A., M.S. in L.S.  
College Librarian V, Cataloging



# Instructional Faculty

The date in brackets following the listing of each person is the date of first appointment in the college.

JAMES L. FISHER, *President, Professor, Psychology*  
B.S., M.S., Illinois State University; Ph.D., Northwestern  
University; LL.D., Millikin University. [1969]

KENNETH A. SHAW, *Vice President of Academic Affairs and  
Dean of the College, Associate Professor, Sociology*  
B.S., Illinois State University; M.Ed., University of Illinois;  
Ph.D., Purdue University. [1969]

DANIEL AGLEY, *Instructor, Health Science*  
B.S., M.S., Indiana University. [1971]

JOHN AKINYEMI, *Assistant Professor, Biology*  
B.S., Aurora College; M.S., Northern Illinois University;  
Ph.D., Howard University. [1974]

PHILIP S. ALBERT, *Assistant Professor, Physical Education*  
B.S., University of Arizona; M.A., Towson State College. [1968]

CLIFFORD D. ALPER, *Professor, Music*  
B.M., M.M., University of Miami; Ph.D., University of  
Maryland. [1960]

MAURITZ G. ANDERSON, *Associate Professor, Biology*  
A.B., University of Michigan; M.A., Indiana University. [1963]

HERBERT D. ANDREWS, *Professor, History*  
A.B., Bowdoin College; M.A., Ph.D., Northwestern University.  
[1959]

VINCENT A. ANGOTTI, *Assistant Professor,  
Physical Education*  
B.S., Lock Haven State College; M.S., West Virginia  
University. [1965]

JAMES M. ANTHONY, *Instructor, Music*  
B.M., B.A., University of Arkansas; M.A., University of  
Michigan. [1971]

JUDITH ARMSTRONG, *Associate Professor, Psychology*  
B.A., Brooklyn College; Ph.D., University of California  
at Berkeley. [1974]

GOLDEN E. ARRINGTON, *Professor and Chairperson,  
Department of Music*  
B.M., M.M., University of Idaho; Ph.D., University of Texas.  
[1968]

EVELYN M. AVERY, *Assistant Professor, English and  
Ethnic Studies*  
B.A., Brooklyn College; M.A., D.A., University of Oregon.  
[1974]

STEPHEN BAILEY, *Assistant Professor, Psychology*  
B.A., Yeshiva University; M.S., Rutgers University;  
Ph.D., Rutgers University. [1971]

GEORGIA O. BAKER, *Associate Professor, Theatre Arts*  
B.S., University of Kansas; M.A., Stanford University. [1966]

SHIRLEY BALDWIN, *Instructor, Learning Resources Center*  
B.A., Knox College; M.Ed., Goucher College. [1970]

CHANDLER BARBOUR, *Professor, Education*  
B.S., Washington State College; M.Ed., University of  
Maine; Ed.D., Wayne State University. [1970]

JOHN R. BAREHAM, *Professor, Physics*  
B.S., State Teachers College at Towson; M.A., EdD.,  
Teachers College, Columbia University. [1956]

CHRISTOPHER E. BARTLETT, *Instructor, Art*  
B.A., St. Paul's College, England; M.A., Bristol University,  
England. [1974]

BARRY A. BASS, *Assistant Professor, Psychology*  
A.B., Rutgers University; Ph.D., University of Tennessee.  
[1974]

ROBERT D. BECKEY, *Associate Professor, Mathematics*  
A.B., Wittenberg University; M.Ed., Miami University. [1959]

MAXINE BEHLING, *Assistant Professor, Learning Resources  
Center*  
B.S., Kent State University; M.A., Teachers College,  
Columbia University. [1966]

CARL BEHM, *Instructor, English*  
B.A., M.A., University of Maryland. [1972]

BETTY BEINER, *Assistant Professor, Education*  
A.B., Goucher College; M.Ed., CASE, Johns Hopkins  
University. [1969]

GEORGE A. BEISHLAG, *Professor, Geography*  
A.B., Wayne University; M.A., Clark University; Ph.D.,  
University of Maryland. [1954]

ERIC A. BELGRAD, *Professor, Political Science*  
B.A., M.A., Ph.D., Johns Hopkins University. [1966]

SUSIE M. BELLOWES, *Associate Professor, Education*  
A.B., College of Charleston; M.A., George Peabody  
College for Teachers. [1961]

PAUL BERMAN, *Professor and Chairperson,  
Department of Theatre Arts*  
B.A., Queens College; M.A., Hunter College. [1970]

L. EDWARD BEVINS, *Professor, English*  
A.B., University of Alabama; M.A., Ph.D., University of  
Virginia. [1952]

JAMES BINKO, *Professor, Education*  
B.S., State Teachers College at Towson; M.A., Ph.D.,  
University of Maryland. [1962]

CORINNE T. BIZE, *Professor, Physical Education*  
B.S., Russell Sage College; M.A., New York University;  
Ed.D., Teachers College, Columbia University. [1951]

KAREN BLAIR, *Instructor, Education and Study Skills  
Support Services Center*  
B.A., Hood College; M.A., Towson State College. [1974]

BONNIE BLAKE, *Assistant Professor, Education*  
B.S., M.Ed., Towson State College. [1972]

SAUNDRA BLAKE, *Instructor, Music*  
B.S., M.Ed.Mus.Ed., Towson State College. [1971]

FLOYD A. BLANKENSHIP, *Associate Professor,  
Department of Chemistry*  
B.S., University of Georgia; Ph.D., University of Illinois. [1966]

MARY BLANN, *Assistant Professor, Physical Education*  
B.S., State University College, Cortland; M.Ed., State  
University of New York, Buffalo. [1971]

ARNOLD BLUMBERG, *Professor, History*  
B.S., M.S., Ph.D., University of Pennsylvania. [1958]

JOHN B. BOLES, *Professor, History*  
B.A., Rice University; Ph.D., University of Virginia. [1969]

FRANCES T. BOND, *Associate Professor and Chairperson,  
Early Childhood Education*  
B.S., M.Ed., State Teachers College at Towson; Ph.D.,  
University of Maryland. [1962]

- PHYLLIS B. BOSLEY, *Associate Professor, Communication Arts & Sciences*  
B.A., Southwestern College, Kansas; M.A., University of Nebraska. [1964]
- ANDREA BOUCHER, *Assistant Professor, Physical Education*  
Diploma in Physical Education, University of Adelaide, Australia; M.Ed., Western Washington State College. [1970]
- JEAN M. BOUTON, *Assistant Professor, Physical Education*  
B.S., Tufts University, M.A., Smith College; C.A.S.E., Johns Hopkins University. [1966]
- DAVID E. BOYD, *Assistant Professor, Education*  
B.A., Washington College; MEd., University of Miami. [1964]
- ELLA BRAMBLETT, *Associate Professor, Education*  
B.S., Middle Tennessee State College; M.A., George Peabody College for Teachers. [1951]
- ALIZA BRANDWINE, *Professor, Education*  
B.A., New School of Social Research; M.A., Ed.D., Yeshiva University. [1969]
- HELENE BREAZEALE, *Assistant Professor, Physical Education*  
B.S., Juilliard School of Music; M.A., Teachers College, Columbia University. [1972]
- JOSEPH BRISCUSO, *Instructor, Music*  
B.A., St. Louis Institute of Music; M.A., Millikin University; Ph.D., University of Iowa. [1975]
- NED BRITT, JR., *Instructor, Physical Education*  
B.S., University of Maryland, Eastern Shore; M.S., Springfield College. [1972]
- SAMUEL BRODBELT, *Associate Professor, Education*  
B.A., M.Ed., Ph.D., Ohio State University. [1969]
- WILLIAM R. BROWN, *Associate Professor, Business Administration*  
B.S., University of Maryland; M.S., Business Administration, Drexel University. [1971]
- MAUD J. BROYLES, *Professor, Education*  
A.B., Concord State Teachers College; M.A., Northwestern University; Ed.D., Teachers College, Columbia University. [1958]
- CLINT BRUESS, *Professor and Chairperson, Health Science*  
B.S., Macalester College; M.A., University of Maryland; Ed.D., Temple University. [1970]
- GILBERT A. BRUNGARDT, *Associate Dean of the College, Professor, Music*  
B.M.Ed., Fort Hays State College; M.M., Washington University; D.M.A., University of Illinois. [1967]
- JOHN L. BUCHANAN, *Assistant Professor, Biology*  
B.S., Shippensburg State College; M.A., University of North Carolina. [1965]
- BARRY BUCHOFF, *Instructor, Business Administration*  
B.S., University of Maryland; C.P.A., State of Maryland; M.B.A., Loyola College. [1972]
- JUDY BURCH, *Assistant Professor and Chairperson, Nursing*  
R.N., B.S., M.S., University of Maryland. [1972]
- GRAYSON S. BURRIER, *Professor, Education*  
A.B., Catawba College; M.A., Teachers College, Columbia University; Ed.D., University of Maryland. [1956]
- LINDA G. BURTON, *Assistant Professor, Instructional Technology*  
B.S., Radford College; M.Ed., University of Virginia. [1968]
- ANTHONY A. CACOSSA, *Professor, Modern Languages*  
B.A., Johns Hopkins University; M.A., Syracuse University; D.M.L., University of Catania (Italy); Certificate in Hispanic Studies, Universidad de los Andes (Columbia). [1965]
- ROBERT S. CAMPBELL, *Assistant Professor, Business Administration*  
B.S., Baltimore College of Commerce; C.P.A. State of Maryland. [1972]
- ROBERT L. CARET, *Instructor, Chemistry*  
B.S., Suffolk University; Ph.D., University of New Hampshire. [1974]
- PAT N. CARLSEN, *Assistant Professor, Occupational Therapy*  
B.S., O.T.R., State University of New York, Buffalo; M.O.T., University of Florida. [1974]
- ELIZABETH P. CARPENTER, *Assistant Professor, Learning Resources Center*  
B.S., Earlham College; M.Ed., Towson State College. [1969]
- DONALD L. CASSATT, *Professor, Psychology*  
B.S., Indiana State College, Pennsylvania; M.L., Ph.D., University of Pittsburgh. [1960]
- RAYMOND J. CASTALDI, *Assistant Professor, Business Administration*  
B.S., Mt. St. Mary's College; C.P.A., District of Columbia; M.B.A., George Washington University. [1970]
- CLEVELAND CHANDLER, *Professor, Management*  
A.B., Moorehouse College; M.B.A., Atlanta University; Ph.D., University of Maryland. [1972]
- HENRY CHEN, *Assistant Professor, Physics*  
B.A., Harvard University, M.A., Johns Hopkins University. [1965]
- PETER C. C. CHEN, *Assistant Professor, Mathematics*  
B.A., St. Anselm's College; M.A., Syracuse University. [1966]
- MARION J. COCKEY, *Instructor, Sociology*  
A.B., Randolph-Macon Woman's College; M.A., University of Tennessee. [1969]
- BERNADINE KAMINSKI COHEN, *Assistant Professor, Art*  
B.S., Philadelphia College of Art; M.F.A., Tyler School of Fine Art. [1970]
- EDWIN COHEN, *Associate Professor, Education*  
B.S., M.Ed., Johns Hopkins University. [1969]
- EILEEN W. COHN, *Assistant Professor, Education*  
B.S., M.Ed., State Teachers College at Towson. [1962]
- VINCENT J. COLIMORE, *Associate Professor, Education*  
B.A., Loyola University; M.A., Fordham University; Ph.D., New York University. [1967]
- RUTH M. CONARD, *Professor, Physical Education*  
A.B., Shepherd College; M.S., University of Wisconsin; Ed.D., Temple University. [1963]
- JOHN E. CONNOLLY, *Assistant Professor, English*  
B.A., University of Scranton; M.A., Ph.D., University of Pennsylvania. [1970]
- DAVID L. CORNTHWAITE, *Professor, Education*  
B.S., Towson State College; M.A., Teachers College, Columbia University; Ed.D., George Washington University. [1952]
- ESTHER S. COULANGE, *Associate Professor, Music*  
B.S., Indiana State College, Pennsylvania; M.A., New York University. [1959]
- SARA COULTER, *Associate Professor, English*  
B.A., Colorado College; Ph.D., University of Colorado. [1969]
- GEORGE W. COX, *Professor, Education*  
A.B., University of Richmond; M.A., Ed.D., University of Virginia. [1963]
- JOSEPH W. COX, *Professor, History*  
B.S., M.A., Ph.D., University of Maryland. [1964]

LOUIS T. COX, *Professor, Physics*  
B.S., State Teachers College at Towson; M.A., Ed.D.,  
Teachers College, Columbia University. [1947]

MELANIE COX, *Assistant Professor, Nursing*  
R.N., B.S., Alderson-Broadus College. [1972]

DONALD H. CRAVER, *Professor and Co-Chairperson, English*  
B.S., Wake Forest College; M.A., Duke University;  
M.Phil., Ph.D., George Washington University. [1962]

LAWRENCE E. CRAWFORD, *Assistant Professor, Music*  
B.A., M.M., University of Oregon. [1965]

PHILIP D. CREIGHTON, *Assistant Professor, Biology*  
B.A., Tarkio College; M.S., Ph.D., Colorado State  
University. [1973]

RONALD W. CUBBISON, *Associate Professor, Art*  
B.S., Philadelphia College of Art; M.F.A., Pennsylvania  
State University. [1966]

GORDON CYR, *Associate Professor, Music*  
A.B., Ph.D., University of California at Berkeley. [1971]

ROBERT E. DAIHL, *Associate Professor, Biology*  
B.S., Shippensburg State College; M.A., Ohio State  
University. [1962]

CHARLOTTE E. DAVIES, *Assistant Professor, Nursing*  
R.N., Diploma, Concord Hospital School of Nursing;  
B.S., University of Bridgeport; M.S., University of  
Maryland. [1971]

EDWARD L. DAVIS, *Associate Professor, Mathematics*  
Ed.B., Ed.M., University of Rhode Island; Ed.D.,  
University of New Mexico. [1970]

LUCY SOLLERS DAVIS, *Assistant Professor, Art*  
B.A., Goucher College; M.F.A., Maryland Institute  
College of Art. [1970]

NANCY DAVIS, *Assistant Professor, Psychology*  
B.S., M.A., University of Alabama; Ph.D., University  
of Maryland. [1972]

RENE deBRABANDER, *Associate Professor, Philosophy*  
B.A., M.A., University of Louvain; Ph.D., Georgetown  
University. [1970]

WILLIAM A. DENNER, *Instructor, Art*  
B.F.A., Maryland Institute College of Art; M.F.A., Yale  
School of Art and Architecture. [1971]

DAVID W. DENT, *Assistant Professor, Political Science*  
B.A., M.A., San Diego State College; Ph.D., University  
of Minnesota. [1972]

ANTHONY DICESARE, *Assistant Professor, Psychology*  
A.B., Suffolk College; M.A., Michigan State University;  
Ph.D., University of Maryland. [1971]

RONALD DIETZ, *Instructor, Instructional Technology*  
B.S., Lebanon Valley College; M.Ed., Pennsylvania State  
University; M.Ed., Temple University. [1971]

NORMAN R. DIFFENDERFER, *Associate Professor and  
Chairperson, Geography*  
B.S., Shippensburg State College, Pennsylvania;  
M.A., University of Nebraska. [1957]

JAMES E. DILISIO, *Instructor, Geography Department*  
B.S., Salem State; M.A., Wayne State University;  
Ph.D., University of Oklahoma. [1975]

PAUL H. DOUGLAS, *Associate Professor, English*  
B.A., University of Connecticut; M.A., University of Oregon;  
M.Phil., Ph.D., George Washington University. [1969]

H. FILMORE DOWLING, *Assistant Professor, English*  
B.A., Swarthmore College; M.A., University of  
Wisconsin. [1966]

RUTH L. DRUCKER, *Associate Professor, Voice*  
B.M., M.M., Eastman School of Music, University of  
Rochester. [1967]

A. ANDERSON DUMAS, *Professor, Education*  
B.S., Alabama State College; M.A., Ph.D., Catholic  
University of America. [1968]

MARY A. DUNCAN, *Instructor, Physical Education*  
B.S., University of Wisconsin; M.S., Johns Hopkins  
University. [1966]

JOHN DURO, *Associate Professor, Music*  
B.Mus., M.Mus., Syracuse University. [1956]

CAROL DWIN, *Assistant Professor, Communication Arts  
and Sciences*  
B.A., M.A., University of Maryland. [1969]

ROBERT S. DYER, *Assistant Professor, Psychology*  
B.A., Grinnell College; Ph.D., State University of  
New York, Buffalo. [1971]

J. ELLEN EASON, *Professor and Chairperson,  
Physical Education*  
B.S., East Carolina College; M.Ed., University of N.C. at  
Greensboro; Ed.D., George Peabody College for Teachers.  
[1966]

SALLY L. EASTERBROOK, *Instructor, Health Science*  
B.S., State University College at Cortland, N.Y.; M.S.,  
Indiana University. [1975]

CHARLES R. EBERHARDT, *Professor and Chairperson,  
Philosophy and Religion*  
B.S., New York University; S.T.M., Biblical Seminary,  
New York; Ph.D., Drew University. [1965]

GEORGIA ECONOMOU, *Associate Professor, English*  
B.A., Scripps College; M.A., Columbia University. [1965]

GERD W. EHRLICH, *Professor, Political Science*  
A.B., College of Idaho; M.A., Washington State University;  
LL.B., University of Maryland; Ph.D., Johns Hopkins  
University. [1966]

SMART A. EKPO, *Associate Professor, Political Science*  
B.A., Howard University; M.A., Ph.D., American  
University. [1967]

LAURA R. ELDRIDGE, *Assistant Professor, History*  
B.A., Wilson College; M.A., Bryn Mawr College. [1970]

GENEVA ELY-FLICKINGER, *Professor, Education*  
B.A., Hood College; M.A., Ph.D., Teachers College,  
Columbia University. [1967]

PHYLLIS G. ENSOR, *Assistant Professor, Health Science*  
B.A., Taylor University; M.A., University of Maryland. [1973]

HOWARD R. ERICKSON, *Professor, Biology*  
B.S., Indiana State College, Pennsylvania; M.S., Pennsylvania  
State University; Ph.D., Cornell University. [1959]

DEAN R. ESSLINGER, *Professor, History*  
B.A., University of Kansas; M.A., Ph.D., University of  
Notre Dame. [1968]

THOMAS G. EVANS, *Assistant Professor and Chairperson,  
Modern Languages*  
B.A., University of Rochester; M.A., Johns Hopkins  
University. [1967]

JAMES EWIG, *Assistant Professor, Biology*  
B.A., Washington-Jefferson College; M.S., Ph.D.,  
Pennsylvania State University. [1971]

JOSEPH A. FALCO, *Professor, History*  
B.A., Duquesne University; M.A., Ph.D., University of  
Pittsburgh. [1957]

- FRED FALLIK, *Assistant Professor, Psychology*  
B.A., Missouri State University; M.A., Michigan State University. [1974]
- JOHN FARIS, *Instructor, Sociology*  
B.A., University of Washington; M.A., University of Chicago. [1974]
- MARGARET E. FAULKNER, *Assistant Professor, Physical Education*  
B.S., West Chester College; M.A., Trenton State College. [1970]
- CHARLES A. FIELD, *Assistant Professor, Physical Education*  
A.B., Belmont Abbey College; M.S., West Virginia University. [1966]
- MICHAEL FIGLER, *Assistant Professor, Psychology*  
B.S., University of Wisconsin; M.A., Ph.D., Michigan State University. [1971]
- GERALDINE FINCH, *Assistant Professor, Physical Education*  
B.S., Panzer College; M.A., Montclair State College. [1969]
- CECELIA FINK, *Assistant Professor, Education*  
B.S., Towson State College; M.L.A., Johns Hopkins University; Ph.D., University of Maryland. [1969]
- ROGER FINK, *Assistant Professor, Psychology*  
B.A., Concordia College; M.Div., Concordia Seminary; M.A., Loyola College. [1972]
- DAVID FIRMAN, *Professor, Geography*  
B.A., M.A., University of California at Los Angeles; Ph.D., University of Maryland. [1955]
- FLORENCE FISCHER, *Assistant Professor, Mathematics*  
B.S., Ursinus College; M.A., University of Delaware. [1966]
- VICTOR B. FISHER, *Assistant Professor, Anthropology*  
A.B., Bucknell University. [1961]
- JOHN H. FIX, *Associate Professor, Art*  
B.F.A., Ohio State University; M.F.A., Cranbrook Academy of Art. [1967]
- JAMES W. FLOOD, *Associate Professor, Art*  
B.S., Philadelphia Museum College of Art; M.Ed., University of Illinois. [1966]
- ANNETTE C. FLOWER, *Special Assistant to the President and Affirmative Action Officer, Associate Professor, English*  
B.A., M.A., Ph.D., University of Maryland. [1969]
- MAIDA FOLLINI, *Assistant Professor, Psychology*  
A.B., Radcliffe College; M.Ed., Boston University; M.A., Clark University. [1975]
- WILLIAM FORBES, *Assistant Professor, Physical Education*  
B.S., Loch Haven State College; M.A., University of Pittsburgh. [1967]
- DONALD C. FORESTER, *Assistant Professor, Biology*  
B.S., M.S., Texas Tech University; Ph.D., N. C. State University. [1974]
- BARBARA FRANKEL, *Assistant Professor, English*  
B.S., John Hopkins University; M.S., University of Wisconsin; M.L.A., Johns Hopkins University. [1968]
- GEORGE S. FRIEDMAN, *Associate Professor, English*  
B.A., Temple University; M.A., Ph.D., Duke University. [1966]
- BARRY FRIEMAN, *Associate Professor, Education*  
B.A., M.A., Ph.D., University of Maryland. [1970]
- RIA FRIJTERS, *Associate Dean of the College, Professor, Business Administration*  
Doctoral Degree, Netherlands School of Economics, Rotterdam. [1967]
- WOLFGANG FUCHS, *Associate Professor, Philosophy*  
B.S., Duquesne University; M.A., Ph.D., Pennsylvania State University. [1969]
- JAMES FURUKAWA, *Professor and Chairperson, Psychology*  
B.S., Sophia University; M.Ed., Loyola College; J.D., University of Maryland; Ph.D., Johns Hopkins University. [1967]
- NEIL E. GALLACHER, *Associate Professor, Health Science*  
B.S., University of Dayton; Ed.M., Temple University; Ph.D., University of Maryland. [1970]
- ROBERT J. GARNER, *Associate Professor, Education*  
A.B., Catholic University; M.Ed., Ed.D., University of Maryland. [1969]
- JOHN E. GAY, *Assistant Professor, Health Science*  
B.S., State University College at Buffalo, N.Y.; M.A., California State University at San Diego; Ed.D., West Virginia University. [1974]
- WILLIAM L. GEHRING, *Associate Professor, Education*  
B.S., Towson State College; M.Ed., Johns Hopkins University; Ph.D., Catholic University. [1966]
- JEREMIAH J. GERMAN, *Assistant Professor, Economics*  
A.B., A.M., University of Chicago. [1970]
- LORENZO GILCHRIEST, *Assistant Professor, Art*  
B.F.A., Newark State College; M.S., Pratt Institute. [1967]
- C. RICHARD GILLESPIE, *Professor, Theatre Arts*  
B.A., Principia College; M.A., Ph.D., State University of Iowa. [1961]
- JORGE A. GIRO, *Associate Professor, Spanish*  
Dr. of Law, Universidad de Villanueva (Cuba) and Jose Marti University (Cuba); B.A., M.S., Indiana State University. [1966]
- JOHN GISSENDANNER, *Assistant Professor, English*  
B.A., M.A., California State University, San Francisco. [1975]
- VIC GLADSTONE, *Assistant Professor, Communication Arts and Sciences*  
B.A., M.A., Pennsylvania State University. [1971]
- IRWIN GOLDBERG, *Professor and Chairperson, Sociology*  
B.S.S., City College of New York; M.A., Ph.D., University of Michigan. [1972]
- NANCY GOLDMAN, *Assistant Professor, Business Administration*  
B.S., Skidmore College; M.S., State University of New York (Albany). [1974]
- WILLARD GRAVES, *Associate Professor, Mathematics*  
B.S., Drury College; B.S.E., M.S., Ph.D., Johns Hopkins University. [1971]
- DAVID GREENE, *Assistant Professor, Physics*  
B.S., Alfred University; Ph.D., University of Wisconsin. [1970]
- DIANNE H. GREYERBIEHL, *Instructor, Communication Arts and Sciences*  
B.A., M.A., University of Maryland. [1972]
- HAROLD E. GRISWOLD, *Associate Professor, Music*  
B.A., Evansville College; M.M., Indiana University. [1969]
- HENRI GROENHEIM, *Associate Professor, Psychology*  
B.A., Pennsylvania State University; M.A., George Washington University; Ph.D., Florida State University. [1969]
- MICHAEL GROSSMAN, *Professor, Economics and Political Science*  
A.B., Oberlin College; M.A., Ph.D., Johns Hopkins University. [1963]
- W. FRANK GUESS, *Professor, English*  
A.B., Presbyterian College; M.A., University of North Carolina. [1946]

DAVID F. GUILLAUME, *Associate Professor, Art*  
B.F.A., Alfred University; M.A., Syracuse University. [1959]

JOSEPH P. GUTKOSKA, *Director of Reading, Professor, Education*  
B.S., Towson State College; M.Ed., Temple University;  
Ed.D., University of Maryland. [1967]

HENRY GEORGE HAHN, *Assistant Professor, English*  
B.S., Mt. St. Mary's College; M.A., University of Maryland;  
M.L.A., Johns Hopkins University. [1965]

GARY T. HAIGHT, *Instructor, Business*  
B.S., M.B.A., University of Dayton. [1972]

JOHN C. HANNON, *Instructor, Business Administration*  
B.S.I.E., M.B.A., University of Dayton. [1974]

IRENE W. HANSON, *Associate Professor, Education*  
B.S., M.S., Temple University; Ph.D., University of Minnesota.  
[1968]

PAUL E. HANSON, *Associate Professor, English*  
B.A., San Francisco State College; M.A., Ph.D., New York  
University. [1960]

ROBERT B. HANSON, *Professor, Mathematics*  
B.S., Towson State College; M.A., Bowdoin College;  
Ed.D., University of Maryland. [1966]

FRANCES HARRELL, *Assistant Professor, Nursing*  
B.S.N., Mount Saint Agnes; M.S., University of Maryland.  
[1974]

PHOEBE J. HARRIS, *Assistant Professor, Physical Education*  
B.A., Syracuse University; M.S., Smith College. [1967]

CHARLES A. HASLUP, *Assistant to the President, Associate Professor, Music*  
B.S., State Teachers College at Towson; M.Ed., University of  
Maryland. [1957]

ALVIE L. HASTE, *Associate Professor, Mathematics*  
B.S. in Education, Ohio State University; M.A., University of  
Cincinnati. [1964]

ELIZABETH R. HATCHER, *Associate Professor, English*  
B.A., Dominican College of San Rafael; M.A., Ph.D., Johns  
Hopkins University. [1969]

WILFRED B. HATHWAY, *Dean of Graduate Studies, Professor, Biology*  
B.S., Massachusetts State College; M.S., University of  
Massachusetts; Ph.D., Cornell University. [1950]

THOMAS F. HAUPT, *Assistant Professor, Spanish*  
Ph.B., Loyola College; M.A., Middlebury College of Madrid.  
[1962]

BILLY D. HAUSERMAN, *Associate Dean of the College, Director of Teacher Education, Professor, Education*  
B.S., State Teachers College at Brockport; M.Ed., University of  
California at Los Angeles; Ed.D., University of Buffalo. [1965]

NORMA HAUSERMAN, *Associate Professor, Learning Resources Center*  
B.S., State University of New York, Brockport;  
Ed.M., University of Buffalo; Ph.D., University of  
Maryland. [1971]

HLIB S. HAYUK, *Assistant Professor, Geography*  
B.A., City College of New York; M.A., University of Wisconsin.  
[1969]

ELAINE HEDGES, *Professor, English*  
B.A., Barnard College; M.A., Radcliffe College;  
Ph.D., Harvard University. [1967]

RICHARD C. HELFRICH, *Associate Professor, Education*  
B.S., University of Scranton; M.Ed., University of Pittsburgh;  
Ed.D., University of Maryland. [1970]

CARL V. HENRIKSON, *Assistant Professor, Biology*  
B.S., University of North Dakota; M.A., Ph.D., University of  
South Dakota. [1970]

MARJORIE R. HENRY, *Professor, English*  
A.B., M.A., Baylor University; Ph.D., University of Washington.  
[1959]

JAMES J. HILL, *Associate Professor, Philosophy*  
B.A., Ph.D., Johns Hopkins University. [1964]

JAMES J. HILL, JR., *Associate Professor, English*  
B.A., Lehigh University; M.A., Temple University;  
Ph.D., University of Texas. [1970]

RICHARD L. HILTON, JR., *Associate Professor, Biology*  
B.A., M.A., University of Connecticut; Ph.D., University of  
Arizona. [1969]

RICHARD L. HILTON, JR., *Associate Professor and Chairperson, Biology*  
B.A., M.A., University of Connecticut; Ph.D., University  
of Arizona. [1969]

EDWIN A. HIRSCHMANN, *Associate Professor, History*  
B.A., John Hopkins University; M.A., Pennsylvania State  
University; M.A., Ph.D., University of Wisconsin. [1969]

ABOLMAJD HOJJATI, *Professor, Sociology*  
B.A., University of Tehran; M.S., Southern Illinois University;  
Ph.D., St. Louis University. [1968]

EDWARD HOLMES, *Associate Professor and Chairperson, Elementary Education*  
B.S., State University College, Oneonta; M.Ed., State  
University College, Cortland; Ph.D., University of Maryland.  
[1971]

ARTHUR L. HOLT, *Professor, Business Administration*  
B.B.A., M.B.A., The University of Texas; Ph.D., Ohio  
State University. C.P.A., Ohio. (1975)

CAROL G. HOOPER, *Instructor, Health Science*  
B.S., University of North Carolina; M.P.H., University of  
Michigan. [1973]

MARTIN G. HORAK, *Professor, Mathematics*  
B.S., Loyola College; M.S., University of Notre Dame;  
Ph.D., University of Maryland. [1967]

JACOB HUANG, *Associate Professor, Physics*  
B.S., Taiwan University; Ph.D., Johns Hopkins University.  
[1967]

ELIZABETH HUGHES, *Assistant Professor, Nursing*  
B.S., Columbia University; M.S., University of Maryland. [1970]

NINA HUGHES, *Professor, English*  
A.B., Florida State College for Women; M.A., Catholic  
University of America; Ed.D., Teachers College,  
Columbia University. [1947]

ERNEST ILGENFRITZ, *Assistant Professor and Chairperson, Mathematics*  
A.B., Gettysburg College; M.S., Brown University. [1966]

HELEN JACOBSON, *Assistant Professor, Art*  
Graduate, Maryland Institute. [1964]

MICHAEL H. JESSUP, *Professor and Chairperson, Secondary Education*  
A.B., A.M., Ed.D., George Washington University. [1967]

JENNY JOCHENS, *Associate Professor, History*  
Cand. Phil., cand. mag., University of Copenhagen. [1969]

RAIG T. JOHNSON, *Assistant Professor, Psychology*  
B.A., University of Wisconsin; M.A., Ph.D., Johns Hopkins  
University. [1975]

ROBERT W. JOHNSON, *Associate Professor, Physics*  
B.S., Wayne State University; M.A., University of Michigan;  
Ed.D., Wayne State University. [1969]



- VIRGINIA A. JOHNSON, *Assistant Professor, Biology*  
B.S., Lamar State College of Technology; M.Ed., University of Georgia. [1968]
- A. JUSTINE JONES, *Instructor, Sociology*  
B.A., Millsaps College; M.A., George Washington University. [1966]
- DAN L. JONES, *Professor and Co-Chairperson, English*  
B.A., Ph.D., University of Utah. [1966]
- E. SHARON JONES, *Assistant Professor, Mathematics*  
B.S., Ottawa University; M.A., Ph.D., University of Minnesota. [1971]
- PAUL JONES, *Instructor, Instructional Technology*  
A.B., Piiffer College; M.A., Appalachian State University. [1971]
- MARY CATHERINE KAHL, *Professor and Choirperson, History*  
A.B., M.A., University of Maryland. [1943]
- NANETTE S. KANDEL, *Professor, Sociology*  
B.A., Hunter College; M.S.W., University of Pennsylvania; Ph.D., University of Maryland. [1968]
- HOWARD S. KAPLON, *Assistant Professor, Mathematics*  
B.S., Towson State Teachers College; M.S., Ohio State University. [1966]
- ELEANORE KARFGIN, *Assistant Professor, Education*  
B.A., American International College; M.S. in Ed., Hofstra University. [1964]
- UNO KASK, *Professor, Chemistry*  
B.S., University of Georgia; M.A., University of Minnesota; Ph.D., University of Texas. [1966]
- ELIZABETH A. KEENEN, *Assistant Professor, Nursing*  
R.N., Diploma, Lancaster General Hospital School of Nursing; B.S., M.S., University of Maryland. [1972]
- JUNE KENNARD, *Assistant Professor, Physical Education*  
B.S., M.A., University of Maryland; Ed.D., University of N. C., Greensboro. [1974]
- MITCHELL W. KERR, *Professor, History*  
B.S., University of Oregon; M.A., Ph.D., Stanford University. [1967]
- MARGARET A. KILEY, *Professor, Education*  
B.S., University of Buffalo; M.A., Ed.D., George Washington University. [1969]
- EARL W. KILLIAN, *Associate Professor, Physical Education*  
B.S., University of Alabama; M.A., Teachers College, Columbia University. [1950]
- OHOE KIM, *Assistant Professor, Mathematics*  
B.A., Korea University; M.S., Ph.D., University of Rochester. [1972]
- SOON JIM KIM, *Instructor, Communication Arts and Sciences*  
Pre-Science, Kagoshima, Japan; B.A., Korea University of Forensics; M.A., University of Missouri. [1975]
- THEODORA R. KIMSEY, *Professor, Education*  
B.S., University of Oklahoma; M.A., Ph.D., Teachers College, Columbia University. [1969]
- DELL C. KJER, *Professor, Education*  
B.E., Wisconsin State University-Stevens Point; M.A., Ph.D., George Peabody College for Teachers. [1965]
- CHARLOTTE A. KOOMJOHN, *Associate Professor, English*  
B.S., St. Louis University; M.A., Miami University; Ph.D., University of Rochester. [1968]
- GEORGE KRANZLER, *Professor, Sociology*  
M.A., Ph.D., Columbia University; Ph.D., Jul. Max. University, Germany. [1966]
- ELMER C. KREISEL, JR., *Assistant Professor, Physics*  
B.A., Johns Hopkins University; M.Ed., Loyola College. [1966]
- THOMAS G. KRUGGEL, *Assistant Professor, Psychology*  
B.A., University of Michigan; Ph.D., Wayne State University. [1975]
- MARTHA J. KUMAR, *Associate Professor, Political Science*  
B.A., Connecticut College; M.A., Ph.D., Columbia University. [1971]
- FREDERICKA KUNDIG, *Professor, Biology*  
B.A., College of Wooster; Ph.D., University of Rochester. [1967]
- FREDERICK J. LADD, *Assistant Professor, Art*  
A.C.I.S., Bristol College of Commerce; University of Bristol Cert. Ed., Bath Academy of Art; M.A., Ph.D., Ohio State University. [1971]
- RICHARD LAINHART, *Assistant Professor, Biology*  
B.S., Pacific Lutheran University; M.S., Idaho State University; Ph.D., Montana State University. [1973]
- KARL G. LAREW, *Professor, History*  
B.A., University of Connecticut; M.A., Ph.D., Yale University. [1966]
- DAVID LARKIN, *Assistant Professor, Chemistry*  
B.Tech., Ph.D., Loughborough Univ. of Technology; A.R.I.C., Royal Institute of Chemistry (London). [1973]
- MARY LU LARSEN, *Assistant Professor, Physics*  
B.S., Siena Heights College; M.S., Michigan State University. [1974]
- BARBARA LAUFER, *Instructor, Communication Arts and Sciences*  
B.A., Towson State College; M.A., Pennsylvania State University. [1975]
- MARA B. LAUTERBACH, *Assistant Professor, Biology*  
B.A., Drew University; M.S., University of Maryland. [1967]
- PAUL J. LAVIN, *Assistant Professor, Psychology*  
B.S., Boston College; M.Ed., Springfield College; Ph.D., University of Maryland. [1971]
- JAMES C. LAWLOR, *Assistant Professor, Education*  
B.S., Towson State College; M.L.A., Johns Hopkins University. [1971]
- VINCENT P. LAWRENCE, *Assistant Professor, Music*  
B.S., Mansfield State College; M.M.E., Pennsylvania State University; Ph.D., Case Western Reserve University. [1973]
- LENA M. LEE, *Instructor, Nursing*  
R.N., B.S., Tuskegee Institute; M.S., University of Maryland. [1974]
- BEVERLY C. LEETCH, *Instructor, Spanish*  
B.A., Mary Baldwin College; M.A., The Johns Hopkins University. [1973]
- SUZANNE LEGAULT, *Assistant Professor, English*  
M.S., Ph.D., Georgetown University. [1975]
- FLORENCE LEONARD, *Instructor, Education*  
B.A., Rutgers University; M.Ed., Towson State College. [1972]
- M. BARBARA LEONS, *Professor, Anthropology*  
B.A., Brandies University; M.A., Ph.D., University of California, Los Angeles. [1970]
- ARLEY W. LEVNO, *Assistant Professor, French*  
B.A., University of Montana; M.A., University of Maryland; University of Paris, (E.S.P.P.F.E.; Institut de Phœntique). [1967]
- HENRY LEVY, *Assistant Professor, Music*  
B.S., Towson State College. [1970]
- CARYL LEWIS, *Assistant Professor, Biology*  
A.B., Western Maryland College; M.A., Bryn Mawr College. [1960]

- MARILYN M. LEWIS, *Professor, Education*  
B.S., M.S., Virginia Commonwealth University;  
D.Ed., University of Virginia. [1970]
- EDWARD W. LEYHE, *Assistant Professor, Psychology*  
B.A., M.A., Johns Hopkins University. [1968]
- DORIS K. LIDTKE, *Assistant Professor, Mathematics*  
B.S., University of Oregon; M.Ed., Johns Hopkins University;  
C.D.P. [1968]
- JAMES A. G. LINDNER, *Professor, Education*  
B.S., M.Ed., Pennsylvania State University;  
Ed.D., Michigan State University. [1969]
- HELEN E. LINDSAY, *Associate Professor, Education*  
B.S., M.Ed., Towson State College; M.Ed., Shippensburg State  
College; Ph.D., Ohio State University. [1972]
- MARAVENE LOESCHKE, *Assistant Professor, Theatre Arts*  
B.S., M.Ed., Towson State College. [1970]
- EDWIN M. LOGAN, *Professor, Instructional Technology*  
B.S., Towson State College; M.A., College of William and  
Mary; Ph.D., University of Virginia. [1967]
- EDDIE LOH, *Associate Professor and Chairperson, Physics*  
B.S., Virginia Polytechnic Institute; Ph.D., Johns Hopkins  
University. [1969]
- CHARLES LONEGAN, JR., *Associate Professor,  
Communications Arts and Sciences*  
B.A., Montclair State College; M.S., Pennsylvania State  
College; Ph.D., Michigan State University. [1970]
- JUDSON LOOMIS, *Associate Professor, Music*  
B.S., Ithaca College; M.L.S., Syracuse University. [1970]
- GLORIA LOUDERMILK, *Instructor, Education*  
B.S., M.Ed., Towson State College. [1972]
- ELSIE LUDLOW, *Assistant Professor, Learning Resources  
Center*  
B.S., Cornell University; M.S., E.C.E., New York University.  
[1969]
- SELMA E. LYONS, *Instructor, Education*  
B.S., M.S., University of Maryland. [1968]
- BARTON L. MACCHIETTE, *Instructor, Business  
Administration*  
B.S., Nasson College; M.B.A., American University. [1971]
- JOHN L. MacKERRON, *Assistant Professor, Communications  
Arts and Sciences*  
B.S., State University of New York, Fredonia; M.A., Syracuse  
University. [1971]
- ARTHUR G. MADDEN, *Professor, Philosophy*  
A.B., Fordham University; M.A., Columbia University;  
Ph.D., Fordham University. [1967]
- ROBERT A. MAGILL, *Professor, Modern Languages*  
B.A., M.A., University of Virginia; Ph.D., Columbia  
University. [1962]
- JOHN MANLOVE, *Associate Professor, Theatre Arts*  
B.A., Reed College; M.A., DePauw University; Ph.D.,  
University of Minnesota. [1967]
- DAVID MARCHAND, *Associate Professor, Music*  
B.S., Bemidji State College; M.S., University of Illinois;  
Ph.D., University of Wisconsin. [1970]
- CURTIS V. MARTIN, *Associate Professor, Geography*  
B.S., Trenton State College; M.A., Clark University. [1957]
- DOUGLAS MARTIN, *Associate Professor, History*  
B.A., M.A., Ph.D., University of Washington. [1970]
- C. KEITH MARTIN, *Assistant Professor, Education*  
B.S., M.S., Indiana University. [1971]
- ANTONETTE MARZOTTO, *Assistant Professor, Political  
Science*  
B.A., University of California, Berkeley; M.A., Ph.D.,  
University of Connecticut, Storrs. [1975]
- JOHN CARTER MATTHEWS, *Professor, History*  
A.B., Davidson College; M.A., Ph.D., University of  
Virginia. [1948]
- YVETTE MAY, *Assistant Professor, Education*  
B.S., Morgan State College; M.A., Teachers College,  
Columbia University. [1971]
- MADELEINE G. McDERMOTT, *Associate Professor, French*  
Licence es Lettres, Sorbonne; M.A., Ph.D., Johns Hopkins  
University. [1969]
- JOHN C. McDONALD, *Assistant Professor, Physical  
Education*  
B.S., Davis-Elkins College; M.S., West Virginia University.  
[1967]
- ALICE P. MCGILL, *Instructor, Learning Resources Center*  
B.S., Elizabeth City State University. [1971]
- GEORGE C. MCGINTY, *Assistant Professor, Physical  
Education*  
A.B., University of North Carolina; M.Ed., University of  
Maryland. [1966]
- WAYNE MCKIM, *Assistant Professor, Geography*  
B.A., M.A., Michigan State University; Ph.D., Northwestern  
University. [1971]
- JOAN D. McMAHON, *Instructor, Health Science*  
B.S., M.A., University of Maryland. [1973]
- M. JANE McMAHON, *Instructor, Health Science*  
B.S., DePaul University; M.S., Indiana University. [1971]
- WAYNE C. McWILLIAMS, *Associate Professor, History*  
B.A., Thiel College; M.A., University of Hawaii; Ph.D.,  
University of Kansas. [1969]
- WILLIAM H. MECHLING, *Assistant Professor, Biology*  
B.A., Haverford College; M.S., Cornell University. [1965]
- THOMAS MEINHARDT, *Professor, Physical Education*  
B.S., M.E., Kent State University; Ph.D., University of  
Illinois. [1970]
- JOHN MELICK, *Assistant Professor, Music*  
B.M., Curtis Institute of Music; M.M., Peabody Conservatory  
of Music. [1969]
- KATHERINE L. MERANI, *Assistant Professor, Piano*  
B.S., M.A., M.Ed., University of Missouri. [1967]
- PRITAM T. MERANI, *Professor, Political Science*  
B.A., M.A., Ph.D., Johns Hopkins University. [1965]
- LUCIA MIDKIFF, *Assistant Professor, Nursing*  
R.N., B.S., University of S.C.; M.S., University of  
Maryland. [1974]
- FRANK R. MILJO, *Associate Professor, Chemistry*  
B.S., M.S., University of Maryland. [1965]
- LLOYD D. MILLER, *Professor, Art*  
B.F.A., University of Iowa; M.A., Harvard University;  
Ed.D., Teachers College, Columbia University. [1954]
- STUART MILLER, *Associate Professor, Psychology*  
B.S., University of Maryland; M.A., Hollins College;  
Ph.D., University of Maryland. [1967]
- JOHN B. MITCHELL, *Professor, Art*  
B.S., M.A., Teachers College, Columbia University;  
Ph.D., New York University. [1949]
- LORETTA MOLITOR, *Assistant Professor, Physics*  
B.S., M.S., State University of New York, Buffalo; M.S.T.,  
Cornell University; Ed.D., University of Pennsylvania. [1971]

- DELICIE MOLLOCK, *Assistant Professor, Nursing*  
R.N., Diploma, Deaconess Hospital; B.S., Whitworth  
College; M.S., University of Maryland. [1974]
- ENRIQUE MONTENEGRO, *Associate Professor, Art*  
B.F.A., University of Florida. [1970]
- RAYMOND J. MOORE, *Assistant Professor, Music*  
B.S., State University of New York; M.M., Peabody  
Conservatory. [1966]
- WILLIAM T. MOOREFIELD, *Associate Professor, Physics*  
B.S., Johns Hopkins University; M.Ed., Loyola College. [1959]
- PORTER MORRISON, *Instructor, Learning Resources Center*  
B.A., Morgan State University; M.Ed., Towson State College.  
(1975)
- FREDERICK MORSINK, *Associate Professor, Biology*  
M.S., Cornell University; Ph.D., University of New  
Hampshire. [1966]
- AMELIA MOSLEY, *Assistant Professor, Nursing*  
R.N., Diploma, Moncton Hospital School of Nursing; B.S.,  
Bob Jones University; M.Ed., Towson State College. [1973]
- ARMIN MRUCK, *Professor, History*  
Staatsexamen, Ph.D., George August University, Goettingen,  
Germany. [1967]
- HAROLD E. MUMA, *Professor, Biology*  
B.S., M.S., University of Maryland. [1957]
- JOHN J. MURUNGI, *Associate Professor, Philosophy*  
B.A., Beloit College; M.A., Ph.D., Pennsylvania State  
University. [1969]
- THELTON MYERS, *Professor, Music*  
B.S., Northern Illinois University; M.A., Fresno State College;  
D.M.A., Peabody Conservatory. [1963]
- MARY-ANN MYRANT, *Associate Professor, Physical  
Education*  
B.S., University of Oregon; M.S., Indiana University; Ph.D.,  
Ohio State University. [1970]
- LUCILLE R. NASS, *Instructor, Learning Resources Center*  
B.S., Ohio University; M.Ed., Towson State College. [1972]
- SAMUEL H. NASS, *Associate Professor, Art*  
B.S., Ohio University; M.A., Teachers College, Columbia  
University. [1956]
- JOYCE C. NEUBERT, *Assistant Professor, Mathematics*  
B.A., Mount Saint Agnes College; M.A., Catholic University  
of America. [1968]
- EDWARD NEULANDER, *Professor, Psychology*  
B.S., City College of New York; M.S., Ed.D., Cornell  
University. [1950]
- ROBERT S. NEVILLE, *Instructor, Business Administration*  
B.A., M.A., Western State College of Colorado. [1972]
- JOHN B. NEWMAN, *Professor, Physics*  
B.S., M.S., University of North Carolina; Ph.D., Johns  
Hopkins University. [1967]
- MARILYN NICHOLAS, *Assistant Professor, Education*  
A.B., Regis College; M.E., Boston University. [1967]
- RICHARD NZEADIBE, *Assistant Professor, History*  
B.A., Andrews University; M.A., Ph.D., Howard University.  
[1971]
- LOIS D. ODELL, *Professor, Biology*  
A.B., New York State College for Teachers at Albany;  
M.A., Ph.D., Cornell University. [1947]
- BARBARA K. OLSON, *Assistant Professor, Education*  
B.S., Hamline University; M.A., University of Minnesota;  
CASE, Johns Hopkins University. [1966]
- GWENYTH J. O'NEILL, *Assistant Professor, Education*  
B.S., Simmons College; M.Ed., Worcester State College. [1966]
- CHARLES C. ONION, *Professor, History and General Studies*  
B.S., University of Minnesota; B.M., MacPhail School of  
Music; M.A., University of Colorado; Ph.D., University of  
Minnesota. [1956]
- JACK D. OSMAN, *Associate Professor, Health Science*  
B.S., West Chester State College; M.A., University of  
Maryland; Ph.D., Ohio State University. (1971)
- HAIG OUNDJIAN, *Assistant Professor, Art*  
B.A., M.F.A., Rutgers University. [1970]
- JERRY G. PANKHURST, *Instructor, Biology*  
B.A., Michigan State; M.A., University of Michigan. [1975]
- FREDERICK J. PARENTE, *Assistant Professor, Psychology*  
B.A., California State University; M.A., Ph.D., University  
of New Mexico. [1975]
- ALAN PATRICK, *Instructor, Education*  
B.S., M.Ed., Towson State College. [1971]
- HARVEY PAUL, *Associate Professor, Economics*  
B.A., Brooklyn College; Ph.D., State University of New  
York at Buffalo. [1966]
- JAMES R. PAULSEN, *Assistant Professor, Art*  
B.A., Western Illinois University; M.A., Northern Illinois  
University. [1969]
- WILLIAM F. PELHAM, *Professor and Co-Chairman, Physics*  
B.Ch.E., Clarkson College of Technology; M.A., Ed.D.,  
Teachers College, Columbia University. [1955]
- JACQUELINE PERREAULT, *Professor, Mathematics*  
B.A., Rosary College; M.S., Ph.D., University of Wisconsin.  
[1970]
- JOHN W. PERRIER, *Instructor, Business Administration*  
B.S., University of Maryland; C.P.A., State of Maryland;  
M.B.A., Loyola College. (1974)
- HERBERT PETRI, *Assistant Professor, Psychology*  
A.B., Miami University; M.A., Johns Hopkins University;  
Ph.D., Johns Hopkins University. [1971]
- GERALD PHILLIPS, *Instructor, Music*  
B.S., Central Michigan State College; M.A., University of  
Cincinnati. [1971]
- HARRY PIOTROWSKI, *Associate Professor, History*  
B.S., State University of New York; Ph.D., Syracuse  
University. [1966]
- ROBERT A. PITMAN, *Instructor, Art*  
B.S., Maryland Institute; M.Ed., Towson State College. [1972]
- PATRICIA R. PLANTE, *Professor, English*  
B.A., St. Joseph's College; M.A., St. Michael's College;  
Ph.D., Boston University. [1969]
- ROGER L. POIRIER, *Associate Professor, French*  
Ph.D., Johns Hopkins University. (1968)
- JEAN POLLACK, *Instructor, Education*  
B.S., Texas Technological College; M.A., Teachers College,  
Columbia University. [1972]
- STANLEY M. POLLACK, *Professor, Art*  
B.S.S., City College of New York; M.A., Teachers College,  
Columbia University. [1951]
- BARBARA POUR, *Assistant Professor, Education*  
A.B., Hood College; M.A., New York University. [1969]
- HELEN R. PULLEN, *Instructor, Art*  
BFA, Maryland Institute. [1974]
- JOAN RABIN, *Assistant Professor, Psychology*  
B.A., Queens College; Ph.D., State University of New  
York, Buffalo. [1971]

BETTY L. RASKIN, *Associate Professor, Psychology*  
B.A., Goucher College; M.A., Ph.D., Johns Hopkins  
University. [1967]

DALE RAUSCHENBERG, *Associate Professor, Music*  
B.M.E., Youngstown University; M.M., Indiana University.  
[1966]

BINA D. RAVAL, *Assistant Professor, Psychology*  
B.A., Behar University; M.A., Ph.D., Catholic University of  
America. [1969]

JOHN D. RAWN, *Assistant Professor, Chemistry*  
B.S., Capital University; Ph.D., Ohio State University. [1974]

JACK W. RAY, *Associate Professor, Education*  
B.A., Gettysburg College; M.A., Bucknell University. [1962]

REYNALDO REYES, *Associate Professor, Music*  
B.M., Santo Tomas University; M.M., Peabody Conservatory.  
[1967]

VERNAL E. RICHARDSON, *Assistant Professor, Music*  
B.M., B.M.E., M.M., Indiana University School of Music. [1968]

GERALD O. RIGGLEMAN, *Assistant Professor, Mathemotomics*  
A.B., B.S., Eastern Nazarene College; M.A., Rutgers  
University. [1962]

R. RAYMOND RIORDON, *Assistant Professor, Physical  
Education*  
A.B., Shepherd College; M.Ed., Miami University. [1964]

FRED M. RIVERS, *Professor, History*  
B.A., Rutgers University; M.A., Hunter College; Ph.D.,  
University of Maryland. [1966]

CARMEN ROBB, *Assistant Professor, Art*  
A.B., Kansas State Teachers College. [1965]

BRUCE ROBERTSON, *Instructor, Philosophy*  
B.A., Elmhurst College; B.D., Princeton Theological  
Seminary. [1971]

LYNN B. RODEWALD, *Assistant Professor, Chemistry*  
B.A., Whittier College; Ph.D., Iowa State University. [1975]

GARY ROSECRANS, *Associate Professor and Chairperson,  
Instructional Technology*  
B.S., Wichita State University; M.Ed., Ed.D., University of  
Virginia. [1972]

FRANCES ROTHSTEIN, *Assistant Professor, Anthropology*  
B.A., Queens College; Ph.D., University of Pittsburgh. [1974]

EDGAR E. ROULHAC, *Assistant Professor, Health Science*  
B.S., M.S., Ph.D., Southern Illinois University; M.P.H.,  
Johns Hopkins University. [1975]

BONNIE ROWAN, *Assistant Professor, Communication  
Arts and Sciences*  
B.A., M.A., University of Wisconsin. [1970]

EDWARD I. RUBENDALL, *Professor, Physics*  
A.B., Illinois College; M.S., University of Illinois. [1954]

CARL A. RUNK, *Assistant Professor, Physical Education*  
B.S., M.Ed., University of Arizona. [1967]

DZIDRA RUTENBERGS, *Assistant Professor, Mathemotomics*  
B.A., Western Reserve; M.A., New York University. [1967]

RODERICK RYON, *Professor, History*  
A.B., Western Maryland College; A.M., Ph.D., Pennsylvania  
State University. [1965]

HENRY N. SANBORN, *Professor, Economics*  
B.A., George Washington University; M.A., Ph.D., University  
of Chicago. [1965]

FRANK J. SANDERS, *Associate Professor, History*  
B.A., Grinnell College; M.A., University of Toronto; Ph.D.,  
University of Arizona. [1967]

JEFFREY L. SANDERS, *Assistant Professor, Psychology*  
B.A., Towson State College; M.A., University of Texas;  
Ph.D., George Washington University. [1968]

HARVEY L. SAXTON, *Professor, Psychology*  
B.S., Central Connecticut State College; M.A., Ph.D.,  
University of Connecticut. [1957]

AUBREY C. SCARBROUGH, *Associate Professor, Biology*  
B.S., M.S., University of Arkansas; Ph.D., University of  
Illinois. [1970]

JEAN A. SCARPACI, *Associate Professor, History*  
B.A., Hofstra University; M.A., Ph.D., Rutgers University.  
[1968]

WAYNE N. SCHELLE, *Vice President, Associate Professor,  
Business Administration*  
B.S., Johns Hopkins University; M.B.A., George Washington  
University. [1967]

ANN SCHEPER, *Assistant Professor, Sociology*  
B.A., Syracuse; M.S.W., University of Maryland. [1974]

CHARLES J. SCHMITT, *Assistant Professor, Mathemotomics*  
B.E., M.S., Vanderbilt University. [1973]

MYRON I. SCHOLNICK, *Associate Professor, History*  
B.A., American University; M.A., Ph.D., University of  
Maryland. [1967]

IMOGEN W. SCHRODER, *Assistant Professor, Nursing*  
R.N., B.S., University of Minnesota; M.A., University of  
Washington. [1975]

JOAN M. SCHUETZ, *Assistant Professor, Biology*  
B.A., Adrian College; M.S., University of Wisconsin. [1966]

RUTH C. SCHWALM, *Associate Professor, Nursing*  
R.N., Diploma, Harrisburg School of Nursing; B.S.,  
University of Pennsylvania; M.R.E., United Theological  
Seminary; M.S., University of Maryland. [1970]

JOYCE REITZEL SCHWARTZ, *Assistant Professor,  
Communication Arts and Sciences*  
B.S., M.A., Ohio State University. [1965]

RALPH C. SCOTT, *Instructor, Geography*  
B.S., M.S., Florida State University; Ph.D., University of  
Georgia. [1974]

R. GUY SEDLACK, *Associate Professor, Sociology*  
B.A., Hamilton College; M.A., Ph.D., University of  
Maryland. [1970]

W. MICHAEL SEGANISH, *Assistant Professor,  
Business Administration*  
B.S., M.B.A., University of Maryland; J.D., University of  
Baltimore School of Law; Admitted in Maryland. [1970]

JANE M. SHEETS, *Professor, German*  
B.S., Purdue University; A.B., M.A., Ph.D., Indiana  
University. [1968]

LOUIS A. SHEETS, *Professor, English*  
A.B., M.A., Marshal University; Ph.D., Ohio State  
University. [1966]

NORMAN L. SHEETS, *Associate Dean of the College,  
Professor, Physical Education*  
B.A., Glenville State College; M.S., Ed.D., West Virginia  
University. [1969]

BONG JU SHIN, *Associate Professor, Economics*  
B.A., University of Pusan; M.A., Ph.D., Ohio State  
University. [1966]

IRENE SHIPMAN, *Assistant Professor, Communication  
Arts and Sciences*  
B.A., Towson State College; M.A., University of Maryland.  
[1970]

- ROBERT E. SHOEMAKER, *Associate Professor, Biology*  
B.A., Carleton College; M.S., University of Minnesota.  
[1964] Ph.D., University of Minnesota. [1969]
- ROSEANN R. SHORES, *Assistant Professor, Education*  
B.A., Towson State College; M.Ed., Goucher College. [1969]
- JESSICA B. SIEGARS, *Assistant Professor, Occupational Therapy*  
B.S., O.T.R., Certification, University of New Hampshire;  
M.Ed., University of Vermont. [1974]
- DOROTHY SIEGEL, *Associate Professor, Psychology*  
B.A., M.A., Temple University. [1966]
- MARTHA J. SIEGEL, *Associate Professor, Mathematics*  
B.A., Russell Sage College; M.A., Ph.D., University of Rochester. [1971]
- EARL H. SLACUM, *Instructor, Learning Resources Center*  
B.S., Morgan State College. [1974]
- WILLIAM R. SLADEK, *Assistant Professor, History*  
B.A., Mary Knoll Seminary (IL); B.D., M.Th., Mary Knoll Seminary (NY); Ph.D., Johns Hopkins University. [1970]
- BARBARA SLATER, *Professor, Psychology*  
B.A., M.Ed., St. Lawrence University; Ph.D., Teachers College, Columbia University. [1971]
- DAVID J. SLATER, *Assistant Professor, Mathematics*  
B.S., Indiana University; M.S., University of Connecticut; Ph.D., Rutgers University. [1975]
- ROBERT L. SLEVIN, *Associate Professor, Physical Education*  
B.S., Ball State University; M.S., Baylor University; Ed.D., Louisiana State University. [1970]
- JAMES W. SMITH, *Assistant Professor, Mathematics*  
A.B., University of Rochester; M.A., State University of New York. [1967]
- ROBERT E. SMITH, *Assistant Professor, Sociology*  
B.A., M.A., University of Maryland. [1965]
- SHIRLEY T. SMITH, *Assistant Professor, Learning Resources Center*  
B.S., M.Ed., Towson State Teachers College. [1964]
- ROBERT L. SMOES, *Assistant Professor, Biology*  
B.A., Hope College; M.A., Western Michigan University. [1969]
- JAY STANLEY, *Associate Professor, Sociology*  
B.S., M.A., University of Tennessee; Ph.D., University of Maryland. [1971]
- MICHAEL STANLEY, *Instructor, Communication Arts and Sciences*  
B.J., M.A., University of Missouri. [1972]
- MARSHALL L. STEVENSON, *Assistant Professor, Geography*  
B.A., University of Vermont; M.A., East Carolina University. [1968]
- RAYMOND STINAR, *Assistant Professor, Physical Education*  
B.S.E., M.S.E., Northern Illinois University. [1972]
- DIANNE STINE, *Associate Professor and Director, Occupational Therapy*  
B.A., Barnard College; O.T.R., Certification, Milwaukee Downer College; M.S., Johns Hopkins University. [1974]
- MARLENE C. STONE, *Associate Professor, Communication Arts and Sciences*  
B.A., M.A., University of Missouri. [1965]
- JOSEPH SUHORSKY, *Assistant Professor, Education*  
B.S., Indiana State University; M.Ed., Loyola College; Ph.D., University of Maryland. [1971]
- THOMAS G. SUPENSKY, *Associate Professor and Choirmaster, Art*  
B.F.A., Ohio State University; M.Ed., Towson State College. [1968]
- MARY M. SUYDAM, *Professor, Psychology*  
B.S., St. Laurence University; M.A., Michigan State University; Ph.D., University of Massachusetts. [1966]
- LINDA M. SWEETING, *Associate Professor, Chemistry*  
B.Sc., M.A., University of Toronto; Ph.D., University of California, Los Angeles. [1970]
- BEN L. SWENSEN, *Assistant Professor, Mathematics*  
B.A., University of Texas; M.A., Sam Houston State University. [1967]
- JANE C. TAN, *Assistant Professor, Piano*  
B.M., University of Santo Tomas; M.M., Peabody Conservatory. [1967]
- BRENDA L. TAYLOR, *Assistant Professor, Communication Arts and Sciences*  
B.S., West Virginia University; M.S., Purdue University. [1970]
- MARY D. TAYLOR, *Associate Professor, Education*  
B.A., University of Pittsburgh; Ed.M., Boston University. [1964]
- JOHN B. TERWILLIGER, *Assistant Professor, Music*  
B.M., M.M., Westminster Choir College. [1966]
- BEATRICE JUNE THEARLE, *Professor, English*  
B.A., M.A., Ph.D., University of Maryland. [1955]
- JEANIE G. THOMAS, *Instructor, English*  
B.A., Mills College; M.A., New York University. [1968]
- JOHN I. TOLAND, *Professor, Sociology*  
B.A., University of Tulsa; M.A., Ph.D., University of Maryland. [1966]
- JOSEPH J. TOPPING, *Associate Professor, Chemistry*  
B.S., LeMoyn College; M.S., Ph.D., University of New Hampshire. [1970]
- VINCENT A. TRITCH, JR., *Associate Professor, Education*  
B.S., Millersville State College; M.Ed., Temple University; Ed.D., University of Sarasota, Florida. [1968]
- CAROLYN H. TROUPE, *Assistant Professor, Education*  
B.S., Miner Teachers College; M.A., Teachers College, Columbia University. [1970]
- LEON UKENS, *Assistant Professor, Physics*  
B.S., Fort Hays State College; M.A., University of Northern Colorado; Ph.D., New York University. [1971]
- GLORIA VANDERHORST, *Assistant Professor, Psychology*  
B.S., M.A., Indiana State University; Ph.D., Bowling Green University. [1975]
- ROYCE W. VAN NORMAN, *Professor and Director of Professional Programs, Education*  
B.S., Wilson Teachers College; M.A., Catholic University; Ph.D., Johns Hopkins University. [1967]
- JOHN G. VAN OSDELL, *Associate Professor, History*  
B.A., Ph.D., Tulane University. [1967]
- RICHARD E. VATZ, *Instructor, Communication Arts and Sciences*  
B.A., M.A., University of Pittsburgh. [1974]
- MILTON VELDER, *Associate Professor, Education*  
A.B., M.A., University of Maryland. [1969]
- MARGUERITE L. VERKRUIZEN, *Associate Professor, Physical Education*  
A.B., Barnard College; M.S., Wellesley College. [1962]
- JOSEF VIDAL-LLECHA, *Professor, Spanish*  
B.A., B.S., Lic., University of Barcelona; Ph.D., University of Madrid; D.S.C.F.C., University of Paris. [1963]
- VIRGINIA D. VIRDEN, *Assistant Professor, Communication Arts and Sciences*  
B.A., M.A., University of Maryland. [1970]

ALEXANDER E. VLANGAS, *Associate Professor, Education*  
B.S., Towson State College; M.A., University of Maryland.  
[1970]

ALAN WADE, *Instructor, Communication Arts and Sciences*  
B.S., Northwestern; M.A., Catholic University of America.  
[1973]

ANN L. WAGNER, *Assistant Professor, Mathematics*  
B.S., Holy Family College; M.A., Bowling Green State University. [1968]

SUSAN R. WALEN, *Assistant Professor, Psychology*  
B.A., M.A., Ph.D., University of Maryland. [1970]

ALLEN A. WALKER, *Associate Professor, Biology*  
B.A., Hobart College; M.A., University of Texas. [1960]

JAMES W. WALL, *Instructor, Physical Education*  
B.A., University of Michigan; M.S., Indiana University;  
R.P.T., New York University. [1973]

ROBERT WALL, *Professor, Education*  
B.S., Iowa State University; M.A., Kent State University;  
Ph.D., University of Maryland. [1966]

BILL L. WALLACE, *Professor and Chairman, Communication Arts and Sciences*  
B.S., M.S., Central Michigan University; Ph.D., Ohio State University. [1968]

CAROLYN WALTER, *Instructor, Physical Education*  
B.S., West Virginia University. [1973]

TERRY L. WANLESS, *Instructor, Physical Education*  
B.S., Black Hills State College; M.S., Northern Illinois University. [1973]

HARRIET WARREN, *Associate Professor, Occupational Therapy*  
B.S., New York University; O.T.R., Certification Milwaukee Downer College; M.S., Boston University. [1974]

PATRICIA WATERS, *Assistant Professor, Education*  
B.S., M.Ed., Towson State College. [1964]

DONALD WATTS, *Instructor, Music*  
B.M.M.M., University of Kansas. [1973]

JOHN W. WEBSTER, *Assistant Professor, Psychology*  
A.B., Ed.M., Ed.D., Rutgers University. [1972]

IRVIN WEINTRAUB, *Associate Professor, Economics*  
A.B., Johns Hopkins University; M.S., Columbia University.  
[1966]

DONALD A. WESLEY, *Professor, Education*  
A.B., Western Reserve University; M.A., Ohio State University; Ed.D., Western Reserve University. [1965]

JOHN M. WESSNER, *Instructor, Physics*  
A.B., Amherst College; M.S.T., Wisconsin State University;  
Ph.D., Montana State University. [1973]

ROBERT Z. WEST, *Associate Professor, Instructional Technology*  
A.B., Harvard College; M.S., M.S. in Ed., Ed.D., University of Pa. [1969]

MARK WHITMAN, *Professor, History*  
B.A., Dartmouth College; M.A., Harvard University;  
Ph.D., Harvard University. [1967]

LOIS J. WIKOFF, *Assistant Professor, Nursing*  
R.N., Diploma Washington University School of Nursing;  
B.S.N., Washington University; M.S.N., Catholic University of America. [1973]

JANE WILEY, *Assistant Professor, Nursing*  
R.N. Diploma, Church Home & Hospital School of Nursing; B.S.N., University of Maryland; M.S., University of Maryland. [1974]

JACQUELINE WILKOTZ, *Assistant Professor, English*  
A.B., M.A., Ph.D., University of California at Berkeley. (1973)

RICHARD J. WILLIAMS, *Associate Professor, Education*  
B.A., Gettysburg College; Ed.M., University of Delaware;  
Ph.D., Michigan State University. (1970)

EARL T. WILLIS, *Professor, Education*  
A.B., Washington College; M.A., Teachers College, Columbia University; Ed.D., George Washington University. [1848-56; 1968]

A. ISABEL WILNER, *Librarian, Loring Resources Center*  
B.A., William Smith College; M. S. in L.S., Carnegie Institute. [1949]

DONALD R. WINDLER, *Associate Professor, Biology*  
B.S., M.A., Southern Illinois University; Ph.D., University of North Carolina. [1969]

ALAN S. WINGROVE, *Associate Professor and Chairperson, Chemistry*  
B.S., Ph.D., University of California. [1973]

PAUL E. WISDOM, *Vice President, Associate Professor, General Studies*  
A.B., Dartmouth; M.A., University of Northern Colorado. [1970]

GUY H. WOLF, II, *Assistant Professor, Anthropology*  
A.B., M.A., University of Alabama. [1969]

ALFRED D. WOLKOWITZ, *Assistant Professor, English*  
A.B., Columbia College; M.A., Columbia University;  
Ph.D., New York University. [1970]

GARY WOOD, *Associate Professor, English*  
B.A., Westminster College; M.A., Ph.D., University of Pittsburgh. [1971]

ARTHUR C. YARBROUGH, JR., *Associate Professor, Chemistry*  
B.S., Georgia Southern College; M.A., Georgia Peabody College for Teachers. [1957]

RITA M. YERKES, *Instructor, Physical Education*  
B.A., University of Kentucky; M.A., University of Missouri. [1974]

PHILLIP B. YOUNG, *Assistant Professor, Psychology*  
B.A., Wabash College; M.A., Ph.D., Northwestern University. [1972]

ROBERT G. ZIEGLER, *Professor, Physical Education*  
B.S., West Chester State College; M.S., Ed.D., Pennsylvania State University. [1971]

CARL L. ZIMMERMAN, *Professor, Mathematics*  
B.S., Washington College; M.A., Louisiana State University;  
Ph.D., University of Maryland. [1962]

MILDRED ZINDLER, *Professor, Art*  
A.B., Florida State University; M.A., Ed.D., Teachers College, Columbia University. [1956]

MARGARET C. ZIPP, *Associate Professor, Mathematics*  
B.S., Douglass College, Rutgers University; M.A., University of Pittsburgh. [1959]

STANLEY ZWEBACK, *Assistant Professor, Psychology*  
B.A., Trenton State College; M.E., Rutgers University;  
Ph.D., University of Maryland. [1970]

## FACULTY EMERITUS

Ms. Allene Archer  
 Ms. Pearle Blood  
 Dr. Arthur W. Brewington  
 Mrs. Arthur W. Brewington  
 Mrs. Bernice A. Brouwer  
 Dr. George C. Coleman  
 Dr. Eunice K. Crabtree  
 Mr. Compton Crook  
 Ms. E. Jane Daniels  
 Ms. Marguerite Dougherty  
 Dr. Anita S. Dowell  
 Ms. Mary G. Doyle  
 Ms. Alice W. Dustira

Mr. Jack Epstein  
 Dr. Regina L. Fitzgerald  
 Dr. William H. Hartley  
 Dr. Genevieve Heagney  
 Ms. E. Heighe Hill  
 Dr. Evelyn F. Hill  
 Dr. John S. Lewis  
 Dr. John W. McCleary  
 Dr. Donald I. Minnegan  
 Dr. Harold E. Moser  
 Mr. Karl J. Moser  
 Dr. Orrielle Murphy  
 Ms. Dorothy W. Reeder

Ms. Mary B. Roach  
 Ms. Marguerite S. Seaman  
 Dr. Marion Sargent  
 Dr. John A. Schmid  
 Dr. Carlton W. Sprague  
 Dr. Rebecca C. Tansil  
 Dr. Marvin C. Volpel  
 Ms. Emma E. Welforth  
 Dr. M. Theresa Wiedefeld  
 Dr. Walter W. Williamson  
 Mr. Phineas P. Wright  
 Ms. Merle Yoder  
 Ms. Gladys C. Hughes

## VISITING FACULTY

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 DANIEL BIRNBAUM, *Modern Languages*  
 VIVIAN BRAUN, *Modern Languages*  
 ANNE BURLEY, *English*  
 WALLACE COBERG, *Theatre Arts*  
 NORDUFF DEBUYE, *Chemistry*  
 JUDITH DOUGLAS, *English*  
 JACOB EPSTEIN, *Education*  
 DOROTHY FIX, *Art*  
 DONALD FRANK, *Sociology*  
 JO-ANN FUCHS, *Philosophy*  
 SHIRLEY GILLESPIE, *Theatre Arts*  
 ROSALYN GHITTER, *Communication Arts and Sciences*  
 MARK GNERRO, *English*  
 SUE GREEN, *English*

JOHN HOFFMAN, *Music*  
 RUTHELLEN JOSSELMAN, *Psychology*  
 HOWARD KAHN, *Business Administration*  
 CHARLES KRATZ, *Communication Arts and Sciences*  
 DINORAH LIMA, *Modern Languages*  
 GWENDOLYN LYNCH, *Communication Arts and Sciences*  
 JUDITH MARKOWITZ, *Women's Studies*  
 JOHN C. McCLEARY, *History*  
 DAVID MEIER, *Business Administration*  
 PATRICIA MICHEL, *Business Administration*  
 FREDERICK MINGER, *Music*  
 MICHAEL O'PECKO, *Modern Languages*  
 GARY ORWIG, *Instructional Technology*  
 EDWARD PALANKER, *Music*

ELIZABETH PALMER, *English*  
 JAMES PLUTSCHAK, *Mathematics*  
 RICHARD REBBERT, *Chemistry*  
 ROBERT REYNARD, *Chemistry*  
 GEORGES ROCOURT, *Economics and Political Science*  
 ALLAN ROSENBERG, *Physics*  
 CHARLES ROTH, *Instructional Technology*  
 ARNOLD K. SMITH, *Biology*  
 DAVID SMITH, *Sociology*  
 ELAINE SOLEZ, *English and Women's Studies*  
 BETTY STRAUSS, *Business Administration*  
 WALTER WILLIAMSON, *Education*  
 IAIN WILSON, *Philosophy*  
 SARA WINOCOUR, *Modern Languages*

## ASSISTANT FACULTY

GARY COBERLY, *College Media*  
 WILLIAM CRANE, *Psychology*  
 THEODORE DEMETRIADES, *Chemistry*  
 CRAIG DOBKIN, *Physical Education*  
 TERRY EMMEL, *Chemistry*  
 MILTON HAWKINS, *Biology*

KAREN INMAN, *Library*  
 CHERYL KITZ, *Theatre Arts*  
 OCK-KYUNG LEE, *Art*  
 BOLESLEUS LIS, *Biology*  
 JAY McCABE, *Administrative Services*  
 DAVID McELROY, *College Media*

STEPHEN MEGINNISS, *Physics*  
 THITRESE SHEKITKA, *Physical Education*  
 JOHN SHOWMAN, *Instructional Technology*  
 JAMES WHITAKER, *Minority Relations*

## Directory of Telephone Numbers

ADMISSIONS .....	321-2112	Physical Education .....	321-2377
Afro-American Cultural Center .....	321-2641	Physical Plant .....	321-2481
Alumni Services .....	321-2234	Physics .....	321-3020
Art .....	321-2808	Placement .....	321-2233
Asian Arts Center .....	321-2807	POLICE DEPARTMENT, CAMPUS .....	321-2133
Athletics .....	321-2759	President .....	321-2356
After 6:00 p.m. Weekends .....	321-2370	Psychology .....	321-3080
Biological Sciences .....	321-3042	Purchasing .....	321-2171
Black Student Union .....	321-2331	REGISTRAR .....	321-2700
Book Store .....	321-2323	Residence .....	321-2516
Business Administration Instruction .....	321-2934	Sociology .....	321-2852
Catering .....	321-2302	SPECIAL EVENTS INFORMATION .....	321-2200
Chemistry .....	321-3058	Special Services .....	321-2315
College Center .....	321-2362	Student Activities .....	321-2309
After 5:00 p.m. Weekends .....	321-2315	Student Government Association .....	321-2711
College Media Services .....	321-2582	SUMMER COURSES .....	321-2022
Communication Arts & Sciences .....	321-3099	Testing Center .....	321-2042
Counseling Center .....	321-2512	Theater Arts .....	321-2792
Economics & Political Science .....	321-2958	Tower Echoes Yearbook .....	321-2713
Education .....	321-2570	Towerlight Weekly Newspaper .....	321-2288
Early Childhood .....	321-2564	Veteran Affairs .....	321-2097
Elementary .....	321-2565	Vice President Academic Affairs .....	321-2125
Records Center .....	321-2684	Vice President Business & Finance .....	321-2151
Secondary & Foundations .....	321-2562	Vice President Institutional Developmnt .....	321-2223
Student Teaching .....	321-2567	Vice President Student Services .....	321-2055
English-American Literature .....	321-2871	WCVT Radio .....	321-2897
English-World Literature .....	321-2947	Women's Center .....	321-2666
EVENING COURSES .....	321-2022		
Facilities Rental .....	321-2315	For the numbers of all departments except those listed above call .....	321-2000
Financial Aid .....	321-2061	An attendant will be on duty from 8:00 a.m. to 5:00 p.m. Monday through Friday.	
FINANCIAL OPERATIONS .....	321-2100	OFFICE HOURS: 8:30 a.m. — 5:00 p.m. week days during academic year	
Food Services .....	321-2300	MAILING ADDRESS: Towson State College Baltimore, Maryland 21204	
Foundation, TSC Inc. ....	321-2223		
Geography & Environmental Planning .....	321-2973	Specific correspondence should be addressed as follows:	
GRADUATE STUDIES .....	321-2500	ADMISSIONS .....	Director of Admissions
Health Center .....	321-2466	BUSINESS .....	Vice-President, Business and Finance
Health Science .....	321-2377	CURRICULUM AND INSTRUCTION .....	Vice-President for Academic Affairs and Dean of the College
History .....	321-2923	GENERAL INFORMATION .....	President
Instructional Technology .....	321-2575	HOUSING OF STUDENTS .....	Director of Residence Halls
International Studies .....	321-2962	SCHOLARSHIPS AND FINANCIAL AIDS .....	Director of Financial Aid
Library .....	321-2461	STUDENT AFFAIRS AN WELFARE .....	Vice-President for Student Affairs
Lida Lee Tall Learning Resources Center .....	321-2351	TRANSCRIPTS, ACADEMIC RECORDS, REGISTRATION .....	Registrar
Mathematics .....	321-3091		
Minimester Courses .....	321-2022		
Minority Relations .....	321-2051		
Modern Language .....	321-2883		
Music .....	321-2839		
News and Publications .....	321-2229		
Nursing .....	321-2067		
Occupational Therapy .....	321-2637		
Orientation .....	321-2306		
Parking Services .....	321-2284		
PERSONNEL .....	321-2161		
Philosophy & Religion .....	321-2755		



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# Academic Calendar 1976-77

## Day Fall Semester 1976

September 1, Wednesday	Residence Halls open
September 1, Wednesday	Registration and Orientation for New Students not previously registered
September 2, 3, Thursday, Friday	Complete Registration and Change of Schedule for pre-registered continuing students — late registration by permission of the Registrar
September 7, Tuesday	Classes begin
September 9 thru 17 Thursday thru Friday	Schedule changes accepted
October 22, Friday	Mid-Semester — end 1st 8 week classes
November 12, Friday	Last day to drop a course
November 24, Wednesday	Thanksgiving Holiday after last class
November 29, Monday	Classes resume
December 14, Tuesday attend Thurs. classes	Last day of classes
December 15, Wednesday	Reading Day
December 16, Thursday	Final examinations begin
December 23, Thursday	Last day of examinations and semester

## January Session 1977

January 3, Monday	Session begins
January 28, Friday	Session ends

## Day Spring Semester 1977

January 31, Monday	Residence Halls open
January 31, Monday	Registration and Orientation for New Students not previously registered
February 1, 2, Tuesday, Wednesday	Complete Registration and Change of Schedule for pre-registered continuing students — late registration by permission of the Registrar
February 3, Thursday	Classes begin
February 7 thru 18 Monday thru Friday	Schedule changes accepted
March 25, Friday	Mid-Semester — end 1st 8 week classes
April 1, Friday	Spring vacation begins after last class
April 12, Tuesday	Classes resume
April 15, Friday attend Monday classes	Last day to drop a course
May 18, Wednesday	Last day of classes
May 19, Thursday	Reading Day
May 20, Friday	Final examinations begin
May 27, Friday	Last day of examinations and semester
June 5, Sunday	Commencement

## Evening Fall Semester 1976

August 2, 1976 Monday	Final date for receipt of application in the Evening Office for mail registration.
August 9, 1976 Monday	Absolute final day to pay fees in order to complete registration by mail. Payment must be in Financial Operations Office.

IF STUDENT FAILS TO COMPLETE REGISTRATION BY MAIL (I.E., NEGLECTS TO PAY HIS/HER BILL, ETC.) THE STUDENT MUST BEGIN REGISTRATION ANEW IN PERSON AT LATE REGISTRATION. SEE FOLLOWING TIME SCHEDULE. STUDENTS WILL BE ALLOWED TO REGISTER IN PERSON DURING THEIR ASSIGNED TIME ONLY.

August 24, Tuesday	Late (on campus) Registration (College Center) L—Z
August 25, Wednesday	Late (on campus) Registration (College Center) A—K
September 7, Tuesday	Evening Classes Begin.

THESE ARE THE ONLY DATES A CHANGE OF SCHEDULE MAY TAKE PLACE REGARDLESS OF ANY OTHER INFORMATION YOU MAY RECEIVE TO THE CONTRARY.

September 8, Wednesday; September 9, Thursday	Change of Schedule Period (\$5.00 Change Fee) Administration Building
September 17, Friday	Last day to change to/or from Pass Option.
October 1, Friday	Final date to apply for Advancement to Degree Candidacy and Comprehensive Examinations. (GRADUATE) Also, last date for GRADUATE STUDENTS to file diploma card for June Graduation.
November 6, Saturday	Comprehensive Examinations (GRADUATE).
November 12, Friday	Last day to drop a course without receiving a grade of "F" or "FX" on student's permanent record. Grade of "F" or "FX" can be removed only if course is repeated.
November 24, Wednesday	Evening Thanksgiving vacation begins after last class.
November 29, Monday	Classes resume.
December 14, Tuesday	Evening college and extension final exams begin.
December 20, Monday	Evening college and extension final exams end. Semester ends.

## Evening Spring Semester 1977

January 3, 1977 Monday	Final date for receipt of application in the Evening Office for mail registration.
January 10, 1977 Monday	Absolute final date to pay fees in order to complete registration by mail. Payment must be in Financial Operations Office.

IF STUDENT FAILS TO COMPLETE REGISTRATION BY MAIL (I.E., NEGLECTS TO PAY HIS/HER BILL, ETC.) THE STUDENT MUST BEGIN REGISTRATION ANEW IN PERSON AT LATE REGISTRATION. SEE FOLLOWING TIME SCHEDULE. STUDENTS WILL BE ALLOWED TO REGISTER IN PERSON DURING THEIR ASSIGNED TIME ONLY.

January 25, Tuesday	Late (on campus) Registration (College Center) A—K
January 26, Wednesday	Late (on campus) Registration (College Center) L—Z
February 7, Monday	Evening Classes Begin.

THESE ARE THE ONLY DATES A CHANGE OF SCHEDULE MAY TAKE PLACE REGARDLESS OF ANY OTHER INFORMATION YOU MAY RECEIVE TO THE CONTRARY.

February 9, Wednesday; February 10, Thursday	Change of Schedule Period (\$5.00 Change Fee)
February 13, Friday	Final date to apply for Advancement to Degree Candidacy and Comprehensive Examinations (GRADUATE). Also, last date for GRADUATE STUDENTS to file diploma card for June Graduation.
February 18, Friday	Last day to change to/or from Pass Option.
March 27, Saturday	Comprehensive Examinations (GRADUATE).
April 1, Friday	Evening Spring vacation begins after last class.
April 12, Tuesday	Classes resume.
April 15, Friday	Last day to drop a course without receiving a grade of "F" or "FX" on student's permanent record. Grade of "F" or "FX" can be removed only if course is repeated.
May 21, Saturday	Evening college and extension final exams begin.
May 27, Friday	Evening college and extension final exams end. Semester ends.









